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U. S. DEPARTMENT OF AGRICULTURE—FOREST SERVICE  
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*Preliminary Edition*

INDEX TERMS TO THE OXFORD SYSTEM OF DECIMAL  
CLASSIFICATION FOR FORESTRY

CUMULATED ALPHABETIC INDEX TO  
PART ONE. FORESTRY.

Containing terms for classes

100	FACTORS OF THE ENVIRONMENT
200	SILVICULTURE
400	FOREST INJURIES & PROTECTION
500	MENSURATION
600	MANAGEMENT & ECONOMICS
900	FORESTRY IN THE NATIONAL CONTEXT

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C & R - PREP



GUIDELINES FOR LIBRARIANS AND OTHER LITERATURE SEARCHERS WHO ARE  
EVALUATING THE PRELIMINARY EDITIONS OF INDEX TERMS FOR THE OXFORD  
SYSTEM OF DECIMAL CLASSIFICATION FOR FORESTRY.

Supplement 2

May 1964

NOTES ON THE CUMULATED ALPHABETIC LIST OF TERMS TO PART I OF THE  
OXFORD SYSTEM. (Classes 100, 200, 400, 500, 600, 900)

P U R P O S E

This cumulation of index terms to Part I of the Oxford System is not a finished product as it now stands. It neither revises nor seeks to replace the index that is incorporated with the printed edition of the Oxford System. Nor has there been any revision of class numbers. In short, this list is to be regarded as raw material. Reviewers are also reminded that the terms are designed in format with the idea that they could be used to build "model numbers" for precise and detailed searching of large classified card catalogs. [Vide Guidelines for Librarians and Other Literature Searchers: Background Data against which to Evaluate Print-Outs of Index Terms for the Oxford System...February 1963. Guidelines B and D].

As described further in Guidelines...Supplement 1, September 1963, para. II, the terms were generated after examination of many thousands of literature citations classified with the Oxford System by the Centralized Title Service at the Commonwealth Forestry Bureau, Oxford, England. These terms represent an analysis of information specifics which were found under each classification number. They are raw material because they are chosen to allow for later editing or recasting to the requirements of differing types of information systems. For instance, they can be turned into a Thesaurus; or atomized as a list of co-ordinated descriptors; or used simply as an Americanized index to the Oxford System, which is full of Briticisms.

V A L I D I T Y

The six classes of the Oxford System which comprise this cumulated list encompass a subject span which ranges from the very precise and organized sciences to the more diffuse subject fields of social economics and forest administration. The disciplines whose literature these classes seek to arrange represent great intellectual and





operational differences. Accordingly, the validity of these index terms also varies. The most valid and least equivocal terms come from the true sciences and their technical servants. Thus A HORIZON or CONE COUNTING are much more useful and certain of retrieval value than STATE SUBSIDY (-FOREST POLICY IMPLEMENTATION. During the work, it seemed that classes 100, 200 and even 400 went pretty well. Class 500 (MENSURATION) offered structural difficulties, if not index term selection problems. Class 600 (MANAGEMENT, ADMINISTRATION, ECONOMICS AND BUSINESS) is probably less satisfactory, and Class 900 (FORESTS AND FORESTRY FROM THE NATIONAL POINT OF VIEW) created some rather lugubrious combinations. A great deal of work remains yet to be done on these last two areas, whose literature contents and concepts are so greatly different from "technical literature."

#### I N D E X   T E R M   S T R U C T U R E :   S I M P L E   T E R M S

The structure of these terms was explained at the outset of this work [Guidelines...February 1963, Guideline C]. The format was selected with a view toward future use in mechanized indexing or retrieval. Further comments are now possible after many months' experience with it.

Basic index term is the single word or short phrase, e.g., RUNOFF: SOIL MOISTURE: STAND IMPROVEMENT PLANNING. Since it is frequently desirable to "invert" a term for filing purposes, the reviewer will encounter MOISTURE (SOIL) and PLANNING (STAND IMPROVEMENT). At this point it must be stressed and subsequently held always in mind, that this list is not like subject-headings lists for American dictionary catalogs. To regard it so will lead persistently to pitfalls and misunderstandings.

The so-called "inverted" terms in the list are actually not inverted, in the subject-heading sense, but are children of the "wrap around" index, or permuted title index, as familiar to technical librarians in B.A.S.I.C.; Keywords Index to U.S. Government Technical Reports; Chemical Titles; and other such experimental endeavors. Reviewers must also guard against "seeing" MOISTURE (SOIL) as a qualified heading analogous to Discovery (Law) or Sonatas (Violin) in dictionary headings. To do so will result in nonsense situations. And finally, reviewers must resist semantic inclinations to view wrap around terms like NUTRITION (SYMBIOTIC ANIMAL) as subdivided heads, e.g. Nutrition--Symbiotic animal. That, too, leads to nonsense encounters.

All "inverted", that is, wrap-around, terms should be read straight through and around, starting with the first word in the parenthesis, e.g. NUTRITION (SYMBIOTIC ANIMAL), read: SYMBIOTIC ANIMAL NUTRITION; STOCK (HANDLING PLANTING), read: HANDLING PLANTING STOCK; PLANNING (STAND IMPROVEMENT), read: STAND IMPROVEMENT PLANNING. Each wrap-around term is a permutation of a short phrase, and all short phrases follow closely the natural language expression.





# I N D E X   T E R M   S T R U C T U R E :   C O M P L E X   T E R M S

In the original Guideline C, these were labeled "binomial terms." As some are not strictly binomial, the term "complex" is now suggested. Some of these complex terms are very succinct and expressive, and others are certainly much less so.

Many of the class numbers in the Oxford system represent concepts which cannot be stated with a short phrase. The usual structure of these concepts is that A operates on B. In subject indexing and even in dictionary catalog headings the verbalization is "influence of..." or "effects upon..." or "producing...", etc., etc.

All our complex terms are simple A(B) operations, and the operating sign is (-, hence A (-B. If for filing purposes, B comes first, then B-) A is written. One or two examples will clarify the method:

1.   TEMPERATURE (PLANT)  
    TEMPERATURE (-PLANTS

The first is a wrap around, simple term, reading PLANT TEMPERATURE--the actual temperature of a given plant at a given time or under a given condition. The second is a complex term and means TEMPERATURE [and its influence on] PLANTS.

2.   FOREST PROTECTION  
    FOREST (PROTECTION)

These are clearly much different. The former means just what it says, and the latter does too, if read right, namely PROTECTION FOREST.

3.   PROTECTION (FOREST)  
    PROTECTION FOREST

Here the two examples are shown in opposite forms. This all should be self-explanatory.

4.   TENURE RIGHTS (-FIRM ECONOMICS  
    TENURE RIGHTS -) FOREST LAW

In this couplet another possibility is illustrated: the first reads TENURE RIGHTS [effects upon] FIRM ECONOMICS and the second reads TENURE RIGHTS [as influenced by] FOREST LAW.

There is only one further variation which may be encountered.

5.   TEMPERATURE (PLANT) -)HUMIDITY



Here a wrap around form represents element (B) of a complex heading (B)A. A wrap around head can also represent A--and for that matter both elements could theoretically be wrap arounds. However, since the second element of the complex term is not a filing position element, there is never a reason to invert it.

## R E D U N D A N C Y

Many redundancies are represented in this list. While redundancy in an index is desirable, there is a limiting factor. Very likely the present list is over-redundant. There are 66 words at FOREST; 20 at NATURAL; 36 at SEED; 68 at SOIL; 35 at PLANT.

It was our desire at the outset to follow natural language. The natural language term is FOREST GRAZING or NATURAL SELECTION. But then, consideration must be given to users who will second-guess the system and decide to look first under GRAZING (FOREST) and SELECTION (NATURAL). So these forms are provided, particularly as S.A.F.'s Forest Terminology solved this ancient problem by inverting nearly everything.

Generally clusters beginning with FOREST or NATURAL are broader concepts, e.g. FOREST PLANTING or NATURAL ENEMIES. But some terms are fairly specific, e.g. FOREST PESTS -) NATURAL ENEMIES or NATURAL PRUNING. The value of big clusters of terms beginning with general words like FOREST is questionable. But we did not know at the outset what such a cluster would look like, so it was allowed to gather. Only through attempting to use it can we really determine how much pruning is necessary.

However, in the case of specific terms, clustering permits the true relative-index advantage to develop, as is shown well at GRAZING, e.g.

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GRAZING (FOREST)
GRAZING (FOREST) -)MULTIPLE USE PLANNING
GRAZING (OPEN RANGE)
GRAZING (-EROSION
GRAZING (-HYDROLOGY
GRAZING (-NATURAL REGENERATION
GRAZING -)STREAMFLOW
GRAZING -)EROSION CONTROL
GRAZING CAPACITY
GRAZING DAMAGE (FOREST)
GRAZING SYSTEMS

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This also illustrates the filing order selected for this form of index heading.



S E E R E F E R E N C E S

As explained in an earlier guideline, when indexing to a classified catalog, see references serve no purpose. If you include a synonym at all, instead of saying "see alternate form," the user is spared lost motion by getting direct reference to the class number, instead of referring him to a preferred term which then gives him the class number.

However, there is one circumstance in which see references effect an economy in an index to a classified catalog. When a string of relative index terms begins to build up under, for example, both FIRE USE and BURNING, one form can be chosen, and a see reference given to the other. This will save many duplicated entries.

This has not been done upon the present list, but will be during final editing.





A HORIZON	114.361
AO HORIZON	114.354
AOO HORIZON	114.351
ABIOTIC FOREST DAMAGE	42
ABSORPTION (GAS)	161.14
ABSORPTION (SOIL)	114.124
ABSORPTION (SOLUTES)	161.11
ACARINA	145.42
ACCESS ROAD SYSTEMS	686.31
ACCESSIBILITY (- ENTERPRISE ECONOMICS	644.3
ACCESSORY SILVICULTURAL SYSTEMS	221.5
ACCLIMATION (NURSERY STOCK)	232.325.5
ACCLIMATION (PLANT)	181.28
ACCOUNTANCY (FOREST)	67
ACCOUNTING SYSTEMS (FOREST)	673
ACCRETION THINNING	242
ACCURACY (VOLUME ESTIMATES)	524.637
ACIDIFICATION (NURSERY SOIL)	232.322.3
ACIDITY (SOIL)	114.25
ADAPTATION (ANIMAL) -)CLIMATE	151.1
ADAPTATION (PLANT) -)CLIMATE	181.2
ADHESIVES (-CHEMICAL PEST CONTROL	414.16
ADMINISTRATION (FOREST)	68
ADMINISTRATION (PRIVATE FOREST)	682
ADMINISTRATION (PUBLIC FOREST)	681
ADMINISTRATIVE COSTS (FOREST)	671
ADMINISTRATIVE PROCEDURE (PUBLIC FOREST)	681.7
ADMINISTRATIVE STRUCTURE (PUBLIC FOREST)	681.2
ADSORPTION (SOIL)	114.243
ADVANCE GROWTH	231.1
ADVANCE PLANTING	235.2
ADVENTITIOUS ROOTS	181.36 ADV
ADVENTITIOUS SHOOTS	181.51
AEOLIAN SOILS	114.468
AERATION (SOIL)	114.13
AERATION (SOIL) (-PLANT GROWTH	181.342
AERIAL FIRE DETECTION	432.23
AERIAL PHOTOGRAPHY	587
AERIAL PHOTOGRAPHY (- FOREST MAPPING	587.3
AERIAL PHOTOGRAPHY (- FOREST MENSURATION	587.5
AERIAL SEEDING	232.337\$687.3
AERIAL SURVEYING	585
AERIAL TRANSPORT (FOREST)	687.3
AEROMYCOLOGY	172.8--181.523
AEROSOLS (-PEST CONTROL	414.23
AFFORESTATION	233
AFFORESTATION (-EROSION	116.64\$233
AFFORESTATION (-STREAMFLOW	116.38\$233
AFFORESTATION -) MANAGEMENT PLANNING	624.3
AFFORESTATION POLICY	913/914
AGE (EXCEPTIONAL)	181.71
AGE (ROTATION) -) FOREST MANAGEMENT	613
AGE (-PLANT BEHAVIOR	181.75
AGE CLASS (PLANTING STOCK)	232.411.2
AGE CLASS (TREE)	228.125
AGE DETERMINATION (TREE/STAND)	55
AGE STRUCTURE (STAND)	552





AGRI-SILVICULTURE	26
AGRI-SILVICULTURE -) MULTIPLE USE PLANNING	908.1
AIR ATTACK (-FIRE SUPPRESSION	432.3
AIR LAYERING (NURSERY)	232.328.4
AIR POLLUTION (-FOREST DAMAGE	425.1
AIR POLLUTION CONTROL -) FORESTS	907.4
AIR TEMPERATURE (-RUNOFF	116.21
AIR TEMPERATURE (-SITE	111.24
AIR TEMPERATURES	111.24
AIRCRAFT (- FOREST SURVEY WORK	586
AIRCRAFT (- FOREST TRANSPORT	687.3
AIRFIELDS (FOREST)	687.3
AIR-GROUND NETS (FOREST)	685.2
ALGAE	172.6
ALIGNMENT CHARTS (- STAND VOLUME	525.1
ALIMENTARY SYSTEM (ANIMAL)	134.3
ALKALI SOILS	114.445.2
ALKALI SOILS (-PLANT GROWTH	181.342
ALL-AGED STANDS	228.6
ALLELOPATHY	181.41
ALLOWABLE CUT	624.1
ALLUVIAL SOILS	114.447
ALPINE MEADOW SOIL	114.441.1
ALTERNATE CLEARSTRIP METHOD	221.222
ALTERNES	182.24
ALTITUDE (-SITE	113.2
AMBIENT TEMPERATURE	111.24
AMBIENT TEMPERATURE (-RUNOFF	116.21
AMENITY VALUES (FOREST)	907.1
AMERICAN STANDARD MEASURES	512
AMINOTRIAZOLE	441--414.12 AMINO
AMIZINE	441--414.12 AMIZ
AMMATE	441--414.12 SUL
AMMONIA GAS FERTILIZER	237.411-NH3
AMPHIBIA	147.6
AMPHIBIOUS VEHICLES (- FOREST TRANSPORT	687.1
ANABOLISM (PLANT)	161.3
ANALYSIS (CHEMICAL) (-LITTER	114.521.3
ANALYSIS (CHEMICAL) (-SOIL	114.2
ANALYSIS (CHEMICAL) (-SOIL FERTILITY	114.521.3
ANALYSIS (PHYSICAL) (-SOIL	114.15
ANASTATIC SOIL SOLUTION	114.28
ANATOMY (ANIMAL)	134
ANATOMY (PLANT)	164
ANGIOSPERMAE	175
ANGLE COUNT (- STAND BASAL AREA	521.62
ANIMAL ADAPTATION -)CLIMATE	151.1
ANIMAL COMMUNITIES	152
ANIMAL DAMAGE (-FOREST	45
ANIMAL DAMAGE CONTROL	451--413/414
ANIMAL ECOLOGY	15
ANIMAL MANURE (-NURSERY BEDS	232.322.43
ANIMAL MIGRATION	151.2
ANIMAL PESTS -)NURSERY PROTECTION	232.327.3
ANIMAL PHYSIOLOGY	131
ANIMAL REPELLENTS	451--414.14
ANIMAL SKIDDING COSTS	663.22
ANIMAL SOCIOLOGY	152
ANIMAL SYNECOLOGY	152
ANIMALS (-FOREST COVER	181.42



ANNUAL MIGRATION	151.2
ANNUAL NET FOREST INCOME	651.2
ANNUAL RING MEASUREMENT (- INCREMENT	561.23
ANNUAL RING WIDTH VARIATION	561.24
ANNUAL RINGS (- TREE AGE DETERMINATION	551
ANTAGONISM (PLANT)	181.41
ANTHERIDIA	163.5*
ANTIBIOTICS (PHYTOCHEMICAL)	160.29 ANTIBIOTICS
APICAL BIOLOGY	161.4
APIDAE	145.721.8*
APIDAE (-FOREST DAMAGE	453--145.721.8*
APPRAISAL (TIMBER)	652.51
AQUIFERS	116.24
ARACHNOIDEA	145.4
ARBOR DAY (- PUBLIC RELATIONS	945.27
ARBORETA	271
ARBORICULTURE	27
ARCHEGONIA	163.5*
ARCHEGONIATAE	173.1
AREA (BASAL)	521.6
AREA (CROWN)	531
AREA (FOLIAGE)	532
AREA (SECTIONAL)	521.5
AREA MEASUREMENT (PLANIMETRIC)	583
AREA MEASUREMENT UNITS	514
AREA METHOD FIRE SUPPRESSION	432.33
ARID SOILS	114.442
ARSENITE (SODIUM)	441--414.12 NAH
ARTHROPODA	145.2
ARTICULATA	145
ARTIFICIAL BARRIERS (-ANIMAL DAMAGE CONTROL	451--413.5
ARTIFICIAL HYBRIDS	165.72
ARTIFICIAL REGENERATION	232
ARTIFICIAL SELECTION	165.62
ARTIFICIAL STAND ATTRIBUTES	228.7
ARTIFICIAL STAND ESTABLISHMENT	232.4
ASCENT (SAP)	161.12
ASEXUAL REPRODUCTION	181.51
ASH (ATMOSPHERIC) (-FOREST DAMAGE	426.2
ASH ANALYSIS (-MINERAL NUTRIENTS	160.21
ASPECT (-SITE	113.3
ASSESSMENT (TAX) -) FOREST VALUATION	652.52
ASSIMILATION (AUTOPHYTE)	161.31
ASSIMILATION (HETEROPHYTE)	161.37
ASSIMILATION (PLANT)	161.3
ASSOCIATIONS (FORESTRY)	946.1
ASSOCIATIONS (INTERNATIONAL FORESTRY)	971
ASSOCIATIONS (PLANT)	182.3
ASSOCIATIONS (PLANT) (- SITE INDEX	542
ASSORTMENT COSTS (ROUGH WOOD)	664
ASSORTMENT TABLES	525.1
ATMOSPHERE (SOIL)	114.13
ATMOSPHERE (-SITE	111.1
ATMOSPHERE -)CHEMICAL ANALYSIS	111.104
ATMOSPHERIC AGENCIES (-FOREST DAMAGE	42
ATMOSPHERIC CIRCULATION	111.13
ATMOSPHERIC COMPOSITION	111.104
ATMOSPHERIC DISTURBANCES	111.15
ATMOSPHERIC MECHANICS	111.11
ATMOSPHERIC PRESSURE (-SITE	111.4





ATMOSPHERIC RADIATION (-SITE	111.212
ATMOSPHERIC THERMODYNAMICS	111.11
ATRAZINE	441--414.12 ATRA
ATTRACTANTS (CHEMICAL) (-PEST CONTROL	414.11
ATTRIBUTES (EVEN-AGED STAND)	228.5
ATTRIBUTES (MIXED STAND)	228.3
ATTRIBUTES (NATURAL STAND)	228.8
ATTRIBUTES (PLANTATION STAND)	228.7
ATTRIBUTES (PURE STAND)	228.2
ATTRIBUTES (UNEVEN-AGED STAND)	228.6
AUDIOVISUAL AIDS (- PUBLIC RELATIONS	945.22
AUTECOLOGY (ANIMAL)	151
AUTECOLOGY (PLANT)	181
AUTOMATIC LOG SCALERS	526.5--015.71*
AUXIN	161.4 GS
AVALANCHE (-FOREST DAMAGE	423.5
AVES	148.2
AVIATION (- FOREST TRANSPORT	687.3
AWARDS (FORESTRY) (- PUBLIC RELATIONS	945.26
AZONAL SOILS	114.448

B HORIZON	114.362
BACK RADIATION (-SITE	111.212
BACKCROSSING (INTERSPECIFIC)	165.38*
BACKCROSSING (INTRASPECIFIC)	165.411*
BACKFIRES (-FIRE SUPPRESSION	432.33
BACTERIA (-FOREST PEST CONTROL	411.16
BAITS (-PEST CONTROL	414.11
BALANCE SHEET FOREST VALUATION	652.55
BALL PLANTING	232.429
BARK (MEDICINAL)	282.3
BARK (- MENSURATION	523
BARK CROPS	282
BARK INJURY	416.4
BARK THICKNESS	523.1
BARK VOLUME	523.3
BARRIERS (ARTIFICIAL) (-ANIMAL DAMAGE CONTROL	451--413.5
BARRIERS (NATURAL) (-FIRE CONTROL	432.18
BASAL AREA	521.6
BASAL AREA (STAND)	521.62
BASAL AREA (STAND) (- SITE INDEX	541
BASAL AREA INCREMENT	561.25
BASAL AREA TABLES	521.51
BASE EXCHANGE (SOIL)	114.234
BAVARIAN FEMELSCHLAG	221.23
BEATING-UP	236.5
BEHAVIOR RESPONSE (ANIMAL)	151.6
BIOCIDES APPLICATION METHODS	414.2
BIOCIDES CHEMICAL PROPERTIES	414.12
BIOCIDES PREPARATIONS	414.1
BIOCIDES SIDE EFFECTS	414.4
BIOCLIMATE	111.86
BIOCOENOSIS	182.3
BIOGRAPHIES	902.1
BIOLOGICAL CONTROL (-FOREST PESTS	411
BIOLOGICAL CONTROL (-FOREST WEEDS	441--411
BIOLOGY (SOIL)	114.6
BIOMETRICS (FOREST)	5
BIOSYNTHESIS (AUTOPHYTE)	161.33





BIOSYNTHESIS (HETEROPHYTE)	161.37
BIOTIC FACTORS	181.4
BIRD PESTS -)NURSERY PROTECTION	232.327.3
BIRD SANCTUARIES -) FORESTS/WILDERNESSES	907.13
BIRDS (-FOREST DAMAGE	452
BIRDS (-FOREST PEST CONTROL	411.14
BLIGHT DAMAGE (LEAF/NEEDLE)	415.15
BLISTER RUST (WHITE PINE)	443.3--172.8 CRO
BLOCKS (FOREST)	615
BLOOD	131.1
BLOW SANDS	114.468
BOARD FOOT LOG RULES	526.6
BOARD-FOOT STAND VOLUME TABLES	524.315(083.5)
BOG SOILS	114.444
BORERS (INCREMENT)	561.22
BORON (SOIL)	114.263 B
BORON DEFICIENCY (-TREE DAMAGE	424.7\$114.263 B
BORON FERTILIZER	232.322.42 B
BOTANICAL GARDENS	271
BOTANY (ECOLOGICAL)	18
BOTANY (GENERAL)	16
BOTANY (SYSTEMATIC)	17
BRANCH SURFACE AREA	536
BRANCHIATA	145.3
BRANCHING (EPICORMIC)	181.63
BRANCHING CHARACTERISTICS	181.62
BREAKAGE (SNOW) (-FOREST DAMAGE	423.4
BREEDING GENETICS (ANIMAL)	135
BREEDING HABIT	156.1
BREEDING METHODS (PLANT)	165.4
BREEDING POTENTIAL	156.1
BRITISH STANDARD MEASURES	512
BROADCAST SEEDING (DIRECT)	232.331
BROADCAST SEEDING (NURSERY)	232.323.1
BROADCASTING (- PUBLIC RELATIONS	945.23
BROOM DAMAGE	416.17
BROWN EARTHS (DRY)	114.442.3
BROWN EARTHS (HUMID)	114.441.3
BROWSE PLANTS	268.3
BROWSING (-FOREST COVER	181.42
BROWSING (-NATURAL REGENERATION	231.323
BRUSH CONTROL	268.44
BRUSH REMOVAL (-HYDROLOGY	116.28
BRYOPHYTA	173.2
BUD FORMATION -)ENVIRONMENT	181.521
BUD GRAFTING	232.328.5
BUD INJURY	416.1
BUD MORPHOLOGY	164.4
BUD PRUNING	245.14
BUDGET PLANNING (FOREST)	677
BUDGET PLANNING (LOGGING ENTERPRISE)	667
BUFFER CAPACITY (SOIL)	114.231
BUILDINGS (PLANNING FOREST)	686.2
BULLDOZING (-ARTIFICIAL REGENERATION	232.216
BULLDOZING (-FIRE SUPPRESSION	432.332--087.4
BURN RECOVERY	434
BURNING (PRESCRIBED)	436
BURNING (PRESCRIBED) (-NATURAL REGENERATION	231.322
BURNING (-ARTIFICIAL REGENERATION	232.213
BURNING (-FOREST PEST CONTROL	413.3



BURNING (-RANGE	268.4
BURNING (-WEED CONTROL	441--413.3
BURNING INDEX	431.5
BURNS -)EROSION	116.65
BUSINESS ANALYSIS (HISTORICAL)	648
BUSINESS STATISTICS (FOREST)	674
BUTT INJURY	416.3
BUTT SWELL (- STEM MEASUREMENTS	521.26
C HORIZON	114.363
CALCAREOUS SOILS	114.465
CALCIUM (PLANT MINERAL)	160.21 CA
CALCIUM (SOIL)	114.267
CALCIUM FERTILIZER RESPONSE	237.417*
CAMBIAL INCREMENT	561.21
CAMBIUM INJURY	416.4
CAMPFIRE FIRE CONTROL	432.13
CAMPFIRE FIRES	431.3
CANE CROPS	287
CANOPY DENSITY	228.11
CANOPY DENSITY MEASUREMENT	533
CANOPY DRIP	116.11
CANOPY INTERCEPTION	116.11
CANOPY THINNING (-REGENERATION	231.31
CAPITAL VALUE (FOREST)	652.4
CARBON 14	160.22 C14
CARBON ASSIMILATION (AUTOPHYTE)	161.32
CARBON ASSIMILATION (HETEROPHYTE)	161.37
CAREER SCOPES (PUBLIC FOREST)	681.4
CARNIVORA	149.74
CARYOTYPE ANALYSIS	165.42
CAST DAMAGE (NEEDLE)	415.15
CASTING (SOIL) (-FIRE SUPPRESSION	432.332
CATABOLISM (PLANT)	161.2
CATENA SOILS	114.411
CATION EXCHANGE	111.234
CATTLE GRAZING DAMAGE	451.1
CECIDIOLOGY	416.13
CELL PHYSIOLOGY	161.7
CELLULAR NITROGEN	160.22 N
CERAMBYCIDAE	145.719.88*
CERAMBYCIDAE (-FOREST DAMAGE	453--145.719.88*
CERATOCYSTIS FAGACEARUM	172.8 CHA
CERATOCYSTIS FAG. (-FOREST DAMAGE	443.3--172.8 CHA
CERATOCYSTIS ULMI (-FOREST DAMAGE	443.3--172.8 CER
CERATOSTOMELLA SPP.	172.8 CER
CERATOSTOMELLA ULMI (-FOREST DAMAGE	443.3--172.8 CER
CERTIFICATION (PLANTING STOCK)	232.411.1
CERTIFICATION (SEED)	232.314
CERVIDAE	149.6 CERVID
CERVIDS (ODOCOILEUS) -)DAMAGE CONTROL	451.2--149.6 ODO
CERVIDS -)FOREST DAMAGE CONTROL	451.2--149.6 CER
CHAINING	581
CHALERA QUERCINA	172.8 CHA
CHALARA QUERCINA (-FOREST DAMAGE	443.3--172.8 CHA
CHANNEL EROSION	116.3
CHAPARRAL CONTROL	268.44
CHEMICAL ANALYSIS (-ATMOSPHERE	111.104
CHEMICAL ANALYSIS (-SOIL	114.2





CHEMICAL ANALYSIS (-SOIL FERTILITY	114.521.3
CHEMICAL COMPOSITION (PLANT)	160.22
CHEMICAL CONTROL (-FOREST PESTS	414
CHEMICAL FERTILIZER (-NURSERY BEDS	232.322.41
CHEMICAL FERTILIZER (-OUTPLANTS	232.425.1
CHEMICAL FOAMS (-FIRE SUPPRESSION	432.331
CHEMICAL WEED CONTROL (FOREST)	441--414
CHEMICAL WEED CONTROL (NURSERY)	232.325.24
CHEMISTRY (ATMOSPHERIC)	111.104
CHEMISTRY (PLANT)	160
CHEMISTRY (SOIL)	114.2
CHEMOSYNTHESIS (AUTOPHYTE)	161.33
CHEMOSYNTHESIS (HETEROPHYTE)	161.37
CHERNOZEM	114.442.1
CHESTNUT SOIL	114.442.2
CHIMAERAS (PLANT)	165.73
CHLOROBENZOIC ACID	441--414.12 CHLOR
CHLOROSIS	424.7
CHRISTMAS TREE CROPS	281
CHROMOSOME MAPPING	165.35*
CHROMOSOME NUMBER	165.42
CHROMOSOMES (ANIMAL)	135
CIRCULATION (ATMOSPHERIC)	111.13
CIRCULATION (BLOOD)	131.1
CIRCULATION (PLANT GAS)	161.15
CIRCULATION (SAP)	161.12
CIRCULATION SYSTEM (ANIMAL)	134.1
CITY TREES	273
CLASSIFICATION (LAND USE)	91
CLASSIFICATION (SITE)	54
CLASSIFICATION (SOIL)	114.4
CLASSIFICATION (TREE)	228.125
CLAY SOILS	114.463
CLEANING (SITE) (-ARTIFICIAL REGENERATION	232.211
CLEANING (SITE) (-NATURAL REGENERATION	231.32
CLEANING (YOUNG STAND)	241
CLEARCUTTING SYSTEMS	221.1
CLEARSTRIP SYSTEMS	221.22
CLIMATE (-ANIMAL ADAPTATION	151.1
CLIMATE (-FIRE DANGER	431.1
CLIMATE (-FOREST DAMAGE	421
CLIMATE (-NURSERY DAMAGE	232.327.1
CLIMATE (-PLANT ADAPTATION	181.2
CLIMATE (-SITE	11
CLIMATE (- SITE CLASS CHANGE	546
CLIMATE (-SOIL FORMATION	114.31
CLIMATE CHANGE	111.83
CLIMATE VARIATION	111.773
CLIMATE ZONES	111.81
CLIMATOGRAPHY	111.82
CLIMATOLOGY	111.8
CLIMAX COMMUNITIES	182.21
CLIMAX CONCEPT	182.22
CLIMBERS (-FOREST DAMGE	442.3
CLOUD DRIP	116.14
CLOUD SEEDING (-PRECIPITATION	111.775.3
CLOUDS	111.76
COATINGS (-FOREST PEST CONTROL	414.24
COBALT (SOIL)	114.268 COBALT
COELENTERATA	143



COLCHICINE TREATMENT	165.43
COLD RESISTANCE (PLANT)	181.22
COLD STORED PLANTING STOCK	232.412.3
COLEOPTERA	145.719*
COLEOPTERA (-FOREST DAMAGE	453--145.719*
COLLECTING (-FOREST PEST CONTROL	413.1
COLLOID PROPERTIES (SOIL)	114.24
COMMENSALISM	151.359
COMMERCIAL FORESTRY ECONOMICS	64
COMMERCIAL FORESTRY HISTORY	648
COMMERCIAL THINNING	242
COMMUNAL OWNERSHIP (- FOREST POLICY	922.2
COMMUNICATION NETWORKS (FOREST)	685
COMMUNITIES (PLANT)	182.3
COMMUNITY DYNAMICS (ANIMAL)	152/153
COMPARTMENT METHOD	221.21
COMPARTMENTS (FOREST)	615
COMPETITION (PLANT)	181.41
COMPOSITION (STAND)	228.2/.3
COMPOSITION IMPROVEMENT PLANTING	235.6
COMPOST (-DIRECT SEEDING	232.332
COMPOST (-NURSERY BEDS	232.322.44
COMPOST (-OUTPLANTS	232.425.2
COMPUTERS (- FOREST MANAGEMENT	6--U.518.5
COMPUTERS (- FOREST MENSURATION	5--U.518.5
CONDENSATION	111.74
CONE COLLECTION	232.312.1
CONE COUNTING	232.311.1--015
CONE DRYING	232.312.2--087)
CONE INITIATION -)ENVIRONMENT	181.521
CONE INJURY	416.2
CONE MORPHOLOGY	164.7
CONE PRODUCTION -)ENVIRONMENT	181.522
CONFERENCES (TECHNICAL/SCIENTIFIC)	946.2
CONGRESSES (INTERNATIONAL FORESTRY)	971
CONGRESSES (TECHNICAL/SCIENTIFIC)	946.2
CONIFERAE	174.7
CONSERVATION (FOREST/WILDERNESS)	907
CONSERVATION (WILDLIFE)	907.1
CONSTANT WIND (-FOREST DAMAGE	421.2
CONTAINER NURSERY STOCK	232.329.6
CONTAINER ORNAMENTALS	273
CONTAINER PLANTING	232.429
CONTINUOUS FOREST INVENTORY (- INCREMENT	562.42
CONTINUOUS FOREST SYSTEM	221.6
CONTOUR FURROWS	116.62
CONTOUR TRENCHES	116.62
CONTRACT SYSTEMS	644.6
CONTROL (BIOLOGICAL)	411
CONTROL (CHEMICAL)	414
CONTROL (NATURAL)	411
CONTROL (SILVICULTURAL)	412
CONTROL LINE CONSTRUCTION (FIRE)	432.332
CONTROL LINES (-FIRE SUPPRESSION	432.33
CONTROL RECORDS (FOREST MANAGEMENT)	625
CONTROLLED POLLINATION	165.41
CONVERSION (SILVICULTURAL)	226
CONVERSION -) MANAGEMENT PLANNING	624.3
CONVERSION COSTS -) LOG SIZE	665
CONVERSION FACTORS (STACKED VOLUME)	527





CONVERSION TABLES (METRIC/USA)	511(083.5)\$512
CONVERSION TABLES (USA/METRIC)	512\$511(083.5)
COOPERATION (STATE-PRIVATE) (- ADVISORY SERVICE	945.12
COOPERATIVE FORESTRY	944
COPPER FERTILIZER	232.322.42 CU
COPPICE (SHELTERWOOD)	222.2
COPPICE METHOD (SIMPLE)	222.2
COPPICE REGENERATION	231.4
COPPICE SYSTEMS	222
COPPICE WITH STANDARDS	222.1
CORDWOOD VOLUME	527
CORE HANDLING (INCREMENT)	561.23
CORK CULTIVATION	282.2
COST ACCOUNTING (FOREST)	672
COST ACCOUNTING (LOGGING ENTERPRISE)	662
COST AND RETURN ACCOUNTING (FORESTRY)	651.1
COST DISTRIBUTION (LOGGING ENTERPRISE)	663
COST AND RETURN ACCOUNTING (FOREST)	671
COST AND RETURN ACCOUNTING (LOGGING ENTERPRISE)	661
COST-BENEFIT RATIO	651.7
COSTS (LOGGING ENTERPRISE)	66
COSTS (STANDING TIMBER PRODUCTION)	651.6
COSTS ESTIMATION (FORESTRY)	651
COVER (-HYDROLOGY	116.1
COVER (-SOIL CHEMISTRY	181.343
COVER (-RUNOFF	116.25
COVER (-SOIL FORMATION	114.33
COVER -)FIRE CONTROL	435.1
COVER DENSITY MEASUREMENT	533
COVERING (DIRECT SEEDING)	232.334
COVERING (NURSERY SEEDBED)	232.323.5
CREDIT (FOREST)	942
CRONARTIUM SPP. (-FOREST DAMAGE	443.3--172.8 CRO
CROP ROTATION (NURSERY)	232.322.1
CROP-TREE THINNING	242
CROPS (NURSE)	235.4
CROPS (SEED)	232.311.1
CROSS-SECTION AREA	521.5
CROSSING	165.41
CROWN CLASS (TREE)	228.125
CROWN CLOSURE -)SPACING	232.43
CROWN DENSITY	228.11
CROWN DENSITY MEASUREMENT (STAND)	533
CROWN HABIT	181.62
CROWN THINNING	242
CROWN THINNING (-REGENERATION	231.31
CROWN VOLUME	531
CRUISE DATA RECORDING	524.41
CRUISE INTENSITY	524.631
CRUISE PARTY ORGANIZATION	524.46
CRUISING (AERIAL)	587.5
CRUISING (FOREST)	524.62
CRUISING (PLOTLESS)	524.63\$521.62
CRUSTACEA	145.3
CRYPTOGAMIA	172.1
CRYPTOGAMIA (-FOREST DAMAGE	443
CUBIC FOOT VOLUME TABLES (STACKED)	527
CUBIC FOOT VOLUME TABLES (STAND)	524.315(083.5)
CUBIC MEASUREMENT UNITS	516
CUBIC VOLUME MEASURE (TOTAL)	516.21



CULL DEDUCTION	525.5
CULTIVATION (NURSERY)	232.325
CULTIVATION (SHIFTING)	261.3
CULTIVATION (-FOREST SOIL	237.1
CULTIVATION (-NATURAL REGENERATION	231.331
CULTIVATORS (MECHANICAL)	232.325.22
CULTURAL MEASURES	24
CULTURAL MEASURES -) ECONOMIC EVALUATION	651.7
CULTURE COMMUNITIES ECOLOGY	182.8
CURCULIONIDAE	145.719.91*
CURCULIONIDAE (-FOREST DAMAGE	453--145.719.91*
CURRENT ANNUAL FOREST PERCENT	651.3
CUTTING AGE	613
CUTTING COSTS (LOGGING ENTERPRISE)	662.2
CUTTING METHODS	221.0
CUTTING SERIES -) FOREST MANAGEMENT	614
CUTTINGS (NURSERY PLANTED ROOT)	232.328.2
CUTTINGS (NURSERY PLANTED STEM)	232.328.1
CUTTINGS (-STAND FORMATION	232.5
CUTTINGS FIELD SURVIVAL	232.411.4
CYCADALES	174.4
CYCLICAL CULTIVATION	261.3
CYTOGENETICS (ANIMAL)	135
CYTOGENETICS (PLANT)	165.31*
CYTOTAXONOMY	165.42

D HORIZON	114.363
DBH MEASUREMENTS	521.2
DALAPON	441--414.12-DALA
DAMAGE COMPENSATION VALUATION	652.54
DAMPING OFF	443.2
DANGER RATING METERS (FIRE)	431.5
DATA RECORDING METHODS	524.41
DEFECT DEDUCTION (- MERCHANTABLE VOLUME	525.5
DEFOLIATION DAMAGE	416.11
DEFORESTATION	914
DEGRADED CHERNOZEM	114.441.5
DEHYDRATION RESISTANCE	161.16--181.311
DEMONSTRATION AREAS/FORESTS	945.25
DENDROCHRONOLOGY	561.24
DENDROLIMUS SP. (-FOREST DAMAGE	453--145.718.51*
DENDROMETERS	561.21
DENITRIFICATION	114.61
DENSITY (CANOPY)	228.11
DENSITY (DIRECT SEEDING)	232.333
DENSITY (PLANTING)	232.43
DENSITY (SOIL)	114.11
DENSITY (STAND)	228.1
DENSITY (STOCKING)	535
DENSITY (TRANSPLANT SEEDLING)	232.324.3
DENSITY MEASUREMENT (CANOPY)	533
DEPLETION (SOIL)	114.58
DEPRECIATION (LOGGING EQUIPMENT)	663.2
DEPTH (PLANTING)	232.423
DEPTH (SOIL)	114.38
DERELICT STAND TREATMENT	25
DESERT SOILS (TEMPERATE)	114.442.5
DESERT SOILS (TROPICAL)	114.442.7
DESSICATION (WINTER) (-FOREST DAMAGE	422.15





DETECTION (FIRE)	432.2
DEVELOPMENT PROGRAM (FORESTRY)	903
DEVELOPMENT ROAD SYSTEMS	686.31
DEW	111.744.1
DIAGNOSIS (PLANT DISEASE/INJURY)	416
DIAGRAM RULES	526.6
DIALLEL CROSSES	165.37*
DIAMETER AT BREAST HEIGHT MEASUREMENTS	521.2
DIAMETER CLASS TABLES	567
DIAMETER INCREMENT	561.21
DIAMETER MEASUREMENTS (STEM)	521.1
DIAMETER/HEIGHT INCREMENT (- FORM FACTOR	561.3
DICOTYLEDONAE	176.1
DICRYL	441--414.12 DICRYL
DIE-BACK DAMAGE	416.16
DILUENTS	414.16
DIPRIONIDAE	145.721.06*
DIPRIONIDAE (-FOREST DAMAGE	453--145.721.06*
DIPTERA	145.722*
DIPTERA (-FOREST DAMAGE	453--145.722*
DIQUAT	441--414.12 DIQUAT
DIRECT METHOD FIRE SUPPRESSION	432.33
DIRECT SEEDING	232.33
DIRT THROWING (-FIRE SUPPRESSION	432.332
DISEASE DIAGNOSIS (FOREST)	416
DISEASE PREVENTION (NURSERY)	232.327.2
DISEASES (FOREST)	44
DISEASES (SEEDLING)	443.2
DISEASES (YOUNG/MATURE STAND)	443.3
DISENGAGEMENT CUTTING	241
DISKING (-ARTIFICIAL REGENERATION	232.216
DISPERSION (SEED)	181.523
DISTRIBUTION (PLANT)	181.1
DISTRIBUTION (SOIL)	114.411
DNOP	441--414.12 DNOP
DOCUMENTATION SERVICES	945.14
DOMINANCE (TREE)	228.12
DOMINANT TREE LAYER	182.41
DORMANCY (SEED)	181.524
DORMANCY (SEED) -)PRETREATMENTS	232.315.3
DRAIN (GROWING STOCK)	905.2
DRAINAGE PATTERN	116.23
DRAINING (-FOREST LAND	237.2
DRAINING (-SITE PREPARATION	232.215
DRAINING -) ECONOMIC EVALUATION	651.78
DRESSING (PLANTING STOCK)	232.412.6
DRESSING (SEED)	232.315.4
DRESSING (SEED) (-DIRECT SEEDING	232.336
DRILL SEEDERS	232.337
DRILL SEEDING (NURSERY)	232.323.1
DRIP (CANOPY)	116.11
DRIP (CLOUD)	116.14
DRIP (FOG)	116.14
DRIZZLE	111.781
DROUGHT	111.773
DROUGHT (PHYSIOLOGICAL WINTER)	422.15
DROUGHT (SUMMER) (-FOREST DAMAGE	422.2
DROUGHT (-FOREST DAMAGE	422.2
DRY PRUNING	245.12
DUFF	114.354





DURATION (PLANT)	181.71
DUST (INDUSTRIAL) (-FOREST DAMAGE	425.1
DUSTING (-PEST CONTROL	414.21
DUTCH ELM DISEASE	443.3--172.8 CER
EARLY FROST DAMAGE	422.11
EARLY LIFTING	232.412.3
EASEMENTS (FOREST)	686.33
ECCENTRICITY (- STEM MEASUREMENTS	521.23
ECOLOGY (- SITE INDEX	542
ECONOMIC EVALUATION	651.7
ECONOMIC IMPORTANCE (FORESTS)	906
ECONOMIC THEORY (- FOREST MANAGEMENT	641
ECONOMICS (FORESTRY BUSINESS)	64
ECOPHENE	181.61
ECOLOGICAL STATISTICS	182.5
ECOLOGY (ANIMAL)	15
ECOLOGY (PLANT)	18
ECOTONES	182.23
EDAPHIC RELATIONS (PLANT)	181.3
EDENTATA	149.31
EDUCATION (FORESTRY)	945.3
ELECTRICAL TROPISM	161.9 EP
ELECTROBIOLOGY (PLANT)	161.9 EP
ELECTROCHEMISTRY (SOIL)	114.23
ELECTRONIC COMPUTERS (- FOREST MANAGEMENT	6--U.518.5
ELECTRONIC COMPUTERS (- FOREST MENSURATION	5--U.518.5
ELECTRONIC LOG SCALERS	526.5--015.71*
ELITE TREES	232.311.2
ELM DISEASE	443.3--172.8 CER
ELUVIAL HORIZON	114.361
EMBRYO SACS	163.31*
EMBRYOLOGY (ANIMAL)	133
EMBRYOLOGY (PLANT)	163
EMBRYOPHYTA	174
EMPLOYMENT (FOREST LABOR)	963
EMPLOYMENT STATUS (PRIVATE FOREST)	682
EMPLOYMENT STATUS (PUBLIC FOREST)	681.3
ENGLISH STANDARD MEASURES	512
ENRICHMENT PLANTING	235.6
ENTERPRISE HISTORY (FOREST)	648
ENTERPRISE STRUCTURE -) PRODUCTION PROCESSES	644
ENTERPRISE SYSTEMS (FOREST)	644.6
ENZYMES (PHYTOCHEMICAL)	160.29 ENZYMES
EPHARMONY	181.61
EPICORMIC BRANCHING	181.63
EPIDEMIOLOGY (-FOREST PROTECTION	450
EPIPHYLLOUS PLANT LAYERS	182.45
EPIPHYTES (-FOREST DAMAGE	442.2
EPIPHYTIC VEGETATION LAYERS	182.44
EPTAM	441--414.12 EPTAM
EQUIPMENT USE FINANCING	676.12
ERADICATION (RANGE)	268.44
ERINOSSES	416.14
EROSION	116
EROSION (IMPACT-DETACHMENT)	116.2
EROSION (-FOREST DAMAGE	424.1
EROSION -)AFFORESTATION	116.64\$233
EROSION -)FORESTRY METHODS	116.64



EROSION -)VEGETATION	116.254*
EROSION CONTROL	116.6
ERROR (MEASUREMENT) (- DBH DATA	521.25
ESKER SOILS	114.467
ESPACEMENT	232.43
ESSENTIAL ELEMENTS (PLANT)	160.24
ESSENTIAL OILS EXUDATION	161.35
EUCOSMIDAE	145.718.27*
EUCOSMIDAE (-FOREST DAMAGE	453--145.718.27*
EUMYCETES	172.8
EVAPORATION	111.73
EVAPORATION -)COVER	116.13
EVAPOTRANSPIRATION	111.73
EVAPOTRANSPIRATION -)COVER	116.13
EVEN AGED STAND ATTRIBUTES	228.5
EVOLUTION (PLANT)	165
EXCEPTIONAL AGE	181.71
EXCHANGE CAPACITY (SOIL)	114.234
EXCRETION (ANIMAL)	131.4
EXCRETION (PLANT)	161.35
EXCURSIONS (SOCIETY)	946.1
EXHAUSTION (SOIL)	114.58
EXHIBITS	945.24
EXOTIC SPECIES TRIALS	232.11
EXPECTATION VALUE (SOIL)	652.1
EXPERIMENTAL FOREST MANAGEMENT PLANS	627.2
EXPERIMENTAL FORESTS (- PUBLIC RELATIONS	945.25
EXPOSURE (PLANTING STOCK)	232.412.4
EXPROPRIATION VALUATION	652.53
EXTENSION FORESTRY	945.1
EXTRACTION (SEED)	232.312.2
EXTRACTION COSTS (LOG)	662.3
EXUDATION MECHANICS	161.35

F LAYER (HUMUS)	114.354
F LAYER (LITTER)	114.351
FAIR MARKET VALUE (- FOREST VALUATION	652.52
FARM FORESTRY	264
FARM FORESTRY DEVELOPMENT POLICY	923.4
FEEDING HABITS ECOLOGY	151.3
FELLING METHODS	221.0
FELLOWSHIPS (TRAVELING)	945.35
FEMELSCHLAG (BAVARIAN)	221.23
FEMELSCHLAG (SWISS)	221.23
FENURON	441--414.12 FEN
FERALIZATION	114.32
FERTILITY (SOIL)	114.52
FERTILITY INDEX (SOIL)	114.521
FERTILIZATION (FOREST)	237.4
FERTILIZATION PHYSIOLOGY (PLANT)	161.6
FERTILIZER (INORGANIC) (-NURSERY BEDS	232.322.41
FERTILIZER (INORGANIC) (-OUTPLANTS	232.425.1
FERTILIZER (-DIRECT SEEDING	232.332
FERTILIZER (-FOREST DAMAGE	424.6
FERTILIZER (-FOREST SITE	237.4
FERTILIZER (-INSECT PESTS	453\$237.4
FERTILIZER (-NATURAL REGENERATION	231.332
FERTILIZER (-NURSERY BEDS	232.322.4
FERTILIZER (-OUTPLANTS	232.425





FERTILIZER RESPONSE (FOREST TREE)	237.41*
FERTILIZER RESPONSE (SOIL)	114.54
FERTILIZER TRIALS	237.41*
FIELD GRAFTS	232.328.5
FIELD KEYS	174--014
FILMS (- PUBLIC RELATIONS)	945.22
FILTRATION (SOIL)	114.123
FINANCIAL MANAGEMENT	676
FINANCIAL MATURITY CONCEPTS	651.1
FINANCIAL PLANNING (FOREST)	677
FINANCIAL PLANNING (LOGGING ENTERPRISE)	667
FINANCIAL ROTATION	651.5
FINANCIAL YIELD (FOREST)	651.4
FIRE (-FOREST INJURY	435.3
FIRE (-HYDROLOGY	116.25
FIRE (-INSECT ATTACK	435.3
FIRE (-PLANT ECOLOGY	181.43
FIRE BEHAVIOR	431.6
FIRE CAUSES (FOREST)	431
FIRE CONTROL	432
FIRE CONTROL (-SUCCESSION	435.1
FIRE CONTROL ORGANIZATION	432.0
FIRE DANGER RATING	431.5
FIRE DETECTION	432.2
FIRE EFFECTS	435/436
FIRE HAZARD REDUCTION	432.16
FIRE LOOKOUT SYSTEMS	432.21
FIRE LOSSES	435.2
FIRE PATROL	432.22
FIRE PREVENTION	432.1
FIRE SEASON	431.4
FIRE SUPPRESSION	432.3
FIRE SUPPRESSION METHODS	432.33
FIRE SUPPRESSION TACTICS	432.32
FIRE USE	436
FIRE USE (-ARTIFICIAL REGENERATION	232.213
FIRE USE (-FOREST PEST CONTROL	413.3
FIRE USE (-NATURAL REGENERATION	231.322
FIRE USE (-RANGE DEVELOPMENT	268.4
FIRE USE (-WEED CONTROL	441--413.3
FIRE WEATHER	431.1
FIREBREAKS	432.18
FIRELINE CONSTRUCTION	432.332
FIRELINES	432.33
FISH MANAGEMENT	157
FIXED COST DISTRIBUTION (LOGGING)	662.1
FLAGELLATAE	172.5
FLAME GUN (-NURSERY WEEDING	232.325.23
FLAMMABILITY (FOREST FUEL)	431.2
FLIGHT (MIGRATION)	151.2
FLOOD (-FOREST DAMAGE	424.2
FLOOD-PLAIN FORESTS	263
FLORAE	174
FLORAL ANATOMY	164.6
FLOWER INJURY	416.2
FLOWER-BUD FORMATION -)ENVIRONMENT	181.521
FLOWERING -)ENVIRONMENT	181.521
FLUCTUATION (POPULATION)	153
FLUORINE (PLANT MINERAL)	160.21 F
FOAMS (CHEMICAL) (-FIRE SUPPRESSION	432.331





FODDER PLANTATIONS	262
FOG	111.75
FOG DRIP	116.14
FOLIAGE AREA	532
FOLIAR ANALYSIS (-MINERAL NUTRIENTS	160.21
FOLIAR ANALYSIS (-SOIL FERTILITY	114.521.5
FOLIAR ANATOMY	164.5
FOMES ANNOSUS (-FOREST DAMAGE	443.3--172.8 FO
FOMES SPP.	172.8 FO
FOOD ACCUMULATION (PLANT)	161.34
FOOD AND AGRICULTURAL ORGANIZATION (U.N.)	972.11
FORAGE MANAGEMENT	268.6
FORAGE PLANTS	268.3
FORAGE TYPES (-YIELD	268.5
FORCED MIGRATION	151.2
FOREST ACCOUNTANCY	67
FOREST ADMINISTRATION	68
FOREST COOPERATIVES	944
FOREST CREDIT	942
FOREST CRUISING	524.62
FOREST DAMAGE -)FIRE	435.3
FOREST DAMAGE -)INORGANIC AGENCIES	42
FOREST DAMAGE -)MAN	46
FOREST DAMAGE -)UNKNOWN CAUSE	48
FOREST DAMAGE COMPENSATION VALUATION	652.54
FOREST ECOSYSTEMS	182.3
FOREST ENTERPRISE SYSTEMS	644.6
FOREST FERTILIZATION	237.4
FOREST FIRE	43
FOREST FIRE (-HYDROLOGY	116.25
FOREST FIRE (-PLANT ECOLOGY	181.43
FOREST FIRE CONTROL	432
FOREST GENETICS	165.3
FOREST GRAZING	268.1
FOREST GRAZING DAMAGE	451.1
FOREST GROWTH	56
FOREST IMPROVEMENT -) FOREST LAWS	935.2
FOREST IMPROVEMENT FINANCING	676.11
FOREST INFLUENCES	907.3
FOREST INSURANCE	943
FOREST INVENTORY METHODS/PLANNING	524.6
FOREST INVESTMENTS	676
FOREST LABOR	96
FOREST LAW	931
FOREST MANAGEMENT	6
FOREST MANAGEMENT METHODS	62
FOREST MANAGEMENT PLANNING	624
FOREST MANAGEMENT PLANNING -) ECONOMIC THEORY	641
FOREST MANAGEMENT PRINCIPLES	61
FOREST MAPPING	582
FOREST MENSURATION	5
FOREST MENSURATION -) AERIAL PHOTOGRAPHY	587.5
FOREST OWNERSHIP	92
FOREST OWNERSHIP -) LAW	933
FOREST PATHOLOGY	44
FOREST PESTS -)NATURAL ENEMIES	411.1
FOREST PLANTING	232.4
FOREST PLANTING METHODS	232.42
FOREST POLICY	90
FOREST POLICY -) NATIONALIZATION	921



FOREST POLICY -) PRIVATE OWNERSHIP	923
FOREST POLICY -) PUBLIC OWNERSHIP	922
FOREST PRACTICE REGUALTIONS	935.1
FOREST PROTECTION	41
FOREST PROTECTION -) FOREST LAW	935.4
FOREST RECREATION	907.2
FOREST REGENERATION	23
FOREST RENT	651.2
FOREST RESOURCES -) MULTIPLE USE	908
FOREST SERVICES -) GOVERNMENT ORGANIZATION	681.1
FOREST SETTLEMENTS	912
FOREST SOIL MANAGEMENT	237
FOREST STAND DEVELOPMENT	228
FOREST SURVEYS (REGIONAL)	524.61
FOREST TAXATION	95
FOREST TREE NURSERIES	232.3
FOREST TYPE (-SOIL INDICATOR	114.521.7
FOREST VALUATION	652
FOREST WEEDS	441
FOREST YIELD	56
FORESTRY (COMMERCIAL)	64
FORESTRY (INDUSTRIAL)	923.2
FORESTRY (INDUSTRIAL) -) MULTIPLE USE PLANNING	908.2
FORESTRY (INTERNATIONAL)	97
FORESTRY (- LAND EXPLOITATION	913
FORESTRY-COMMISSIONS	932
FORESTRY DEVELOPMENT POLICY	903
FORESTRY EDUCATION	945.3
FORESTRY HISTORY	902
FORESTRY HISTORY (COMMERCIAL)	648
FORESTRY SOCIETIES	946.1
FORESTRY SOCIETIES (INTERNATIONAL)	971
FORESTRY-AID TRAINING	945.33
FORESTS (DEMONSTRATION)	945.25
FORESTS (- ART/LITERATURE	907.6
FORESTS (- NATIONAL ECONOMY	906
FORESTS (- POPULAR CUSTOMS	907.6
FORESTS (- PUBLIC ENVIRONMENT	907
FORESTS (- PUBLIC HEALTH	907.4
FORESTS (- REGIONAL PLANNING	911
FORESTS (- -)SOIL	181.3
FORM (GROWTH)	181.61
FORM (STAND)	228.5/.6
FORM (TREE) (- VOLUME FORMULAE	524.1
FORM CLASS	524.13
FORM-FACTOR--)-INCREMENT	561.3
FORM FACTORS	524.12
FORM-HEIGHTS	524.12
FORM POINT	524.13
FORM QUOTIENT	524.13
FORMICIDAE	145.721.5*
FORMICIDAE (-FOREST DAMAGE	453--145.721.5*
FORMULA RULES (LOG VOLUME)	526.6
FORMULAE (LOG VOLUME)	526.5
FORMULAE (STAND VOLUME)	524.314
FRAMES (NURSERY)	232.329.2/.3
FRILLING	243.8
FROST	111.744.2
FROST (-FOREST DAMAGE	422.1
FROST CRACK	416.5





FROST HARDINESS	181.22
FROST HEAVE DAMAGE	422.13
FROST POCKETS (-FOREST DAMAGE	422.18
FROST PROTECTION (NURSERY STOCK)	232.327.13
FRUIT CROPS	283.1
FRUIT INJURY	416.2
FRUIT MORPHOLOGY	164.7
FRUIT PRODUCTION -)ENVIRONMENT	181.522
FUEL FORESTS/PLANTATIONS	262
FUEL MOISTURE CONTENT	431.2
FUEL REDUCTION (-FIRE PREVENTION	432.16
FUEL REDUCTION (-FIRE SUPPRESSION	432.33
FUELBREAKS	432.17
FUELBREAKS (LIVING)	432.17
FUMIGATION (SEED)	232.315.1
FUMIGATION (-PEST CONTROL	414.23
FUNGI (SYSTEMATIC)	172.8
FUNGI (-FOREST DAMAGE	443
FUNGI (-FOREST PEST CONTROL	411.16
FUNGI -)NATURAL CONTROL	443--411
FUNGICIDES	443--414.1
FUNGITOXICITY	114.66
FUNGUS CONTROL (NURSERY)	232.327.2
FUNGUS DISEASES (-FOREST DAMAGE	443
FURROW PLANTING	232.422
FURROW SEEDERS	232.337

G HORIZON	114.363
GALL DAMAGE	416.13
GAME DAMAGE CONTROL	451.2
GAME MANAGEMENT	156
GAME MANAGEMENT HISTORY	156.7
GAME REFUGES	156.2
GAME REFUGES -) FORESTS/WILDERNESSES	907.13
GAME SURVEY	156.2
GAMETES	163.7*
GAS (INDUSTRIAL) (-FOREST DAMAGE	425.1
GAS (SOIL)	114.13
GAS ABSORPTION	161.14
GAS CONTROL (INDUSTRIAL) -) FORESTS	907.4
GAS EXCHANGE	161.2/.3
GENE GROUPINGS	165.35*
GENE MUTATION	165.43
GENETIC CLASSIFICATION (SOIL)	114.44
GENETIC CONSTITUTION (PLANT)	165.4
GENETICS (ANIMAL)	135
GENETICS (PLANT)	165.3
GENOTYPE -)ENVIRONMENT	165.623*
GEOGRAPHIC VARIATION	165.52
GEOMETRIDAE	145.718.68*
GEOMETRIDAE (-FOREST DAMAGE	453--145.718.68*
GERMINATION (SEED)	181.525
GERMINATION (SPORE)	181.59\$172.8
GERMINATION -)ENVIRONMENT	181.525
GERMINATION -)SEED GRADING	232.312.3
GERMINATION -)SEED STORAGE	232.315.2
GERMINATION BEHAVIOR	181.525
GERMINATION PHYSIOLOGY (PLANT)	161.6
GERMINATION TESTS	232.318





GIBBERELLIN	161.4 GS
GINKGOALES	174.6
GIRDLING	243.8
GLAZE ICE	111.744.2
GLAZE ICE (-FOREST DAMAGE	423.3
GLE Y HORIZON	114.364
GLE Y SOILS	114.443.1
GNETALES	174.9
GRADIENT (TAPER)	524.14
GRADIENT (-SITE	113.3
GRADING (NURSERY SEEDLING)	232.324.2
GRADING (PLANTING STOCK)	232.411.3
GRADING (SEED)	232.312.3
GRADING (SEED) (-GERMINATION	232.312.3
GRADUATE FORESTRY STUDY	945.31
GRAFT HYBRIDS	165.73
GRAFTING	232.328.5
GRAFTING (-SEED PRODUCTION	232.311.3
GRASSLAND MANAGEMENT	268
GRAVEL PIT SOIL	114.449.9 GRAVEL
GRAVELLY SOILS	114.466
GRAZING (FOREST)	268.1
GRAZING (FOREST) -) MULTIPLE USE PLANNING	908.1
GRAZING (OPEN RANGE)	268.2
GRAZING (-EROSION	116.26
GRAZING (-HYDROLOGY	116.26
GRAZING (-NATURAL REGENERATION	231.323
GRAZING (-STREAMFLOW	116.36
GRAZING -)EROSION CONTROL	116.61
GRAZING CAPACITY	268.5
GRAZING DAMAGE (FOREST)	451.1
GRAZING SYSTEMS	268.6
GREEN MANURE (-NURSERY BEDS	232.322.1
GREEN MANURE (-OUTPLANTS	232.425.2
GREEN PRUNING	245.13
GREENHOUSES	232.329.1
GREY SOILS (DRY)	114.442.4
GREY-BROWN PODZOLIC SOILS	114.441.4
GROOD SOILS	114.441.5
GROSS INCREMENT	562.21
GROUND COVER (-HYDROLOGY	116.25
GROUND COVER -)FIRE CONTROL	435.1
GROUND COVER VEGETATION	182.47/.48
GROUND PATROL (-FIRE CONTROL	432.22
GROUND SCARIFICATION	231.331
GROUND SURVEY	581/584
GROUND-AIR VISUAL SIGNALS	685.3
GROUNDWATER	114.129
GROUNDWATER AQUIFERS	116.24
GROUNDWATER FLUCTUATION (-FOREST DAMAGE	424.2
GROUP CUTTING METHOD	221.23
GROUP SEED TREE METHOD	221.21
GROUP SELECTION METHOD	221.411
GROWING STOCK (- ENTERPRISE ECONOMICS	644.2
GROWING STOCK THEORY	612
GROWTH (ADVANCE)	231.1
GROWTH (FOREST)	56
GROWTH (NET STAND)	562.21
GROWTH (OUTPLANT) -)STOCK SIZE	232.411.3
GROWTH (PLANT)	161.4



GROWTH (PLANT) -) SOIL TYPE	181.32
GROWTH -) ENVIRONMENT	181.65
GROWTH -) FOREST FERTILIZATION	237.4
GROWTH -) PLANTATION SPACING	232.43
GROWTH CYCLE (TIMBER) (- FOREST ECONOMY	642
GROWTH FORM	181.61
GROWTH PERCENT	561.6
GROWTH REGULATOR (-FOREST PROTECTION	441--414.13
GROWTH REGULATORS	161.4 GS
GROWTH REGULATORS (APPLIED)	414.13
GROWTH SUBSTANCES	161.4 GS
GUIDEBOOKS (FOREST)	904
GULLY EROSION	116.2
GUM EXUDATION	161.35
GUM TAPPING	284.2
GUTTAS	284.3
GUTTATION	161.13
GYMNOSPERMAE	174.2
GYPPUS	644.6

H LAYER	114.354
HABIT (PLANT)	181.6
HABITAT FORM	181.61
HABITAT NEEDS	156.2
HACKING	243.8
HAIL	111.787
HAIL (-FOREST DAMAGE	423.6
HALOMORPHIC SOILS	114.445
HAND CULTIVATING	232.325.21
HAND PLANTING TOOLS	232.427--087.2
HARDPAN (SUBSURFACE)	114.362
HARDPAN (SURFACE)	114.361
HARVEST (FOREST SEED)	232.311.1
HARVESTING COSTS -) STEM/LOG SIZE	665
HAZARD RATING (FUEL)	431.2
HAZARD REDUCTION (FIRE)	432.16
HEAT BALANCE (-RUNOFF	116.21
HEAT PROTECTION (NURSERY)	232.327.12
HEAT RESISTANCE (PLANT)	181.22
HEDGE PLANTS	274
HEDGEROW TREES	265
HEELING IN	232.412.3
HEIGHT INCREMENT	561.1
HEIGHT MEASUREMENT (STAND)	522.3
HEIGHT MEASUREMENT (TREE)	522.2
HEIGHT-DIAMETER CURVES	522.31
HEIGHT/AGE (STAND) (- SITE INDEX	541
HEIGHT/LENGTH MEASUREMENT (STEM)	522
HEMIPTERA	145.714*
HEMIPTERA (-FOREST DAMAGE	453--145.714*
HERALDIC PLANTS	907.6
HERB SYNUSIA	182.47
HERBAGE TYPE (-YIELD	268.5
HERBARIA	170.1
HERBICIDE APPLICATIONS	441--414.12
HERBICIDE SIDE EFFECTS	414.4
HERBICIDES (NURSERY)	232.325.24
HERBICIDES (RANGE)	268.44
HERBICIDES (-ARTIFICIAL REGENERATION	232.214





HERBICIDES (-FOREST WEED CONTROL	441--414.1
HERBICIDES (-NATURAL REGENERATION	231.324
HEREDITY (ANIMAL)	135
HEREDITY (PLANT)	165.3
HERITABILITY	165.37*
HETEROSIS	165.37*
HIBERNATION	151.2
HIGH FOREST SYSTEMS	221
HIGH FOREST WITH STANDARDS	221.51
HIGH TEMPERATURE (-FOREST DAMAGE	422.2
HIGH THINNING	242
HIGH THINNING (-REGENERATION	231.31
HISTOLOGY	168
HISTORY (COMMERCIAL FORESTRY)	648
HISTORY (FORESTRY)	902
HOAR FROST	111.744.2
HOAR FROST (-FOREST DAMAGE	423.2
HOLE PLANTING	232.421
HOPPUS MEASURE	516.25
HORIZON (SOIL)	114.35/.36
HORMONE (GROWTH)	161.4 GS
HORTONS LAWS	116.23
HUMANS (-FOREST DAMAGE	46
HUMIDITY	111.71
HUMIDITY (-FIRE DANGER	431.1\$111.71
HUMUS CHEMISTRY	114.27
HUMUS LAYER	114.354
HUMUS SOILS	114.461
HUNTING REGULATIONS	156.6
HUNTING TECHNIQUES	156.3
HYBRID SWARMS	165.71
HYBRID TREE TAXONOMY	165.7
HYBRID TRIALS	232.13
HYBRID VIGOR	165.37*
HYBRIDIZATION (INTROGRESSIVE)	165.71
HYBRIDS-(NATURAL)	165.71
HYDROLOGIC ROLE (FOREST)	181.312
HYDROLOGY	116
HYDROMETEORS	111.7
HYDROPONIC CULTURES	232.323.7
HYDROSYSTEM (PLANT)	161.12
HYGROSCOPIC WATER (-SOIL)	114.125
HYGROSCOPICITY (SOIL)	114.125
HYMENOPTERA	145.721*
HYMENOPTERA (-FOREST DAMAGE	453--145.721*
HYPSOMETERS	522.2

ICE STORM (-FOREST DAMAGE	423.3
ICHNEUMONIDAE	145.721.1*
ICHNEUMONIDAE (-FOREST DAMAGE	453--145.721.1*
IGNITABILITY (FOREST FUEL)	431.5
ILLUVIAL HORIZON	114.362
IMPACT EROSION	116.2
IMPROVEMENT CUTTING	243
IMPROVEMENT PLANTING	235.6
IMPROVEMENT PLANTING/CUTTING -) FOREST LAWS	935.2
IMPROVEMENTS	686
IN-SERVICE TRAINING	945.33
INBREEDING	165.413*



INCENDIARY FIRE CONTROL	432.14
INCENDIARY FIRES	431.3
INCORPORATED HUMUS ORGANIC CHEMISTRY	114.27
INCREMENT	56
INCREMENT (BASAL AREA)	561.25
INCREMENT (GROSS)	562.21
INCREMENT (HEIGHT)	561.1
INCREMENT (LATERAL)	561.2
INCREMENT (QUALITY)	561.5
INCREMENT (STAND VOLUME)	562.2
INCREMENT (VOLUME)	562
INCREMENT (- FORM FACTOR	561.3
INCREMENT -)ENVIRONMENT	181.65
INCREMENT -) GROWING STOCK MANAGEMENT	612
INCREMENT -) SITE CLASS	547
INCREMENT BORINGS	561.22
INCREMENT CORE HANDLING	561.23
INCREMENT FORECASTING	564
INCREMENT MEASURING METHODS (STAND VOLUME)	562.4
INCREMENT PERCENT	561.6
INCREMENT VARIATION (ANNUAL RING)	561.24
INDICATING PERCENT	651.3
INDICATOR PLANTS	114.521.6
INDIRECT METHOD FIRE SUPPRESSION	432.33
INDUCED VARIATION	165.4
INDUSTRIAL FORESTRY	923.2
INDUSTRIAL FORESTRY -) MULTIPLE USE PLANNING	908.2
INDUSTRIAL PROCESSES (-FOREST DAMAGE	425
INFILTRATION	116.2
INFILTRATION -)SNOWMELT	116.21
INFILTRATION -)SOIL TEXTURE	116.24
INFILTRATION -)VEGETATION	116.251*
INFILTRATION -)WATER BALANCE	116.21
INFILTRATION CAPACITY (SOIL)	114.123
INFLORESCENCE	164.6
INFORMATION AND EDUCATION	945
INFORMATION CENTERS	945.14
INFORMATION MEDIA	945.2
INGROWTH	562.23
INJECTION (PLANT) (-FOREST PROTECTION	414.26
INJECTION (SOIL) (-FOREST PROTECTION	414.27
INJECTORS (TREE)	243.8--087.2
INNOCULATION (NURSERY)	232.322.45
INNOCULATION (-DIRECT SEEDING	232.332
INNOCULATION (-OUTPLANT	232.425.4
INORGANIC AGENCIES (-FOREST DAMAGE	42
INORGANIC AGENCIES (-NURSERY DAMAGE	232.327.1
INORGANIC FERTILIZER (-FOREST SITE	237.4
INORGANIC FERTILIZER (-NURSERY BEDS	232.322.41
INORGANIC FERTILIZER (-OUTPLANTS	232.425.1
INORGANIC SOIL CHEMISTRY	114.26
INSECT ATTACK -)FIRE	435.3
INSECT PESTS (FOREST) -)CONTROL MEASURES	453--411/414
INSECT PESTS -)FERTILIZER	453\$237.4
INSECT PESTS -)NURSERY PROTECTION	232.327.4
INSECT PREDATORS	151.41--145.7
INSECT PREDATORS (-FOREST PEST CONTROL	411.12
INSECT VECTORS	181.59\$172.8\$145.7
INSECTA	145.7
INSECTIVORA	149.33





INSECTS (-FOREST DAMAGE	453
INSECTS (-SOIL	114.68--145.7
INSOLATION	111.211
INSTITUTIONS (FORESTRY)	946.3
INSURANCE (ACCIDENT)	964
INSURANCE (FOREST)	943
INTERCEPTION (CANOPY)	116.11
INTEREST CALCULATION (- FORESTRY OPERATIONS	646
INTERMEDIATE CUTTING	24
INTERNAL TEMPERATURE (PLANT)	161.9
INTERNATIONAL FORESTRY	97
INTERNATIONAL FORESTRY COMMISSION	972.11
INTERNATIONAL FORESTRY ORGANIZATIONS	972
INTERNATIONAL UNION FOREST RESEARCH ORGS.	972.12
INTERPLANTING (-COMPOSITION IMPROVEMENT	235.6
INTERPLANTING (-SITE UTILIZATION	237.5
INTRAZONAL SOILS	114.443
INTROGRESSIVE HYBRIDIZATION	165.71
INUNDATION (-FOREST DAMAGE	424.2
INVENTORY METHODS/PLANNING (FOREST)	524.6
INVERTEBRATA	142
INVESTMENT MEASURES (FOREST)	676.1
INVESTMENT RETURN (FORESTRY)	651.1
INVESTMENT RETURN (LOGGING ENTERPRISE)	661
INVESTMENTS (FOREST)	676
ION EXCHANGE (SOIL)	114.23
IRON (SOIL)	114.268 FE
IRON DEFICIENCY (-TREE DAMAGE	424.7\$114.268 FE
IRREGULAR SHELTERWOOD METHOD	221.23
IRRIGATED FORESTS	263
IRRIGATION (NURSERY)	232.325.1
IRRIGATION (-ARTIFICIAL REGENERATION	232.217
IRRIGATION (-FOREST SOIL MANAGEMENT	237.6
ISOPTERA	145.707*
ISOPTERA (-FOREST DAMAGE	453--145.704*

KAME SOILS	114.467
KARST SOIL	114.441.7 KARST
KARYOTYPE ANALYSIS	165.42

L LAYER	114.351
LABOR (FOREST)	96
LABOR MANAGEMENT (FOREST)	684
LAC-HOSTS	288
LAND APPRAISAL (- COMPENSATION RATE	652.53
LAND RECLAMATION (FOREST)	237
LAND REFORM (- FOREST POLICY	921
LAND TENURE RIGHTS (- ENTERPRISE ECONOMICS	644.5
LAND TENURE RIGHTS -) FOREST LAW	935.5
LAND-TRANSPORT (FOREST)	687.1
LAND USE	91
LAND-USE COMPETITION -) FORESTRY	913/914
LAND USES MANAGEMENT	911
LAND VALUE (- FOREST VALUATION	652.2
LANDING COSTS (LOG)	662.4
LANDSCAPE TREES	273
LANDSLIDE (-FOREST DAMAGE	424.1
LASCIOCAMPIDAE	145.718.51*





LASCIOCAMPIDAE (-FOREST DAMAGE	453--145.718.51*
LATE FROST DAMAGE	422.12
LATERAL INCREMENT	561.2
LATERITES	114.441.7
LATEX TAPPING	284.3
LATITUDE (-SITE	113.1
LAWS (FOREST)	931
LAYER COMMUNITIES	182.4
LAYER PROPAGATION (NURSERY)	232.328.4
LAYERING	181.51
LEACHING (SOIL)	114.31
LEAF ANALYSIS (-SOIL FERTILITY	114.521.5
LEAF AREA	532
LEAF BLIGHT/CAST DAMAGE	415.15
LEAF CROPS (MEDICINAL)	285
LEAF CURL	416.14
LEAF INJURY	416.1
LEAF LITTER (-SOIL FORMATION	114.351
LEAF MINER DAMAGE	416.12
LEAF MORPHOLOGY	164.5
LEASING (LOGGING EQUIPMENT)	663.21
LEGISLATION (FOREST)	931
LENTICEL MORPHOLOGY	164.9 LEN
LEPIDOPTERA	145.718*
LEPIDOPTERA (-FOREST DAMAGE	453--145.718*
LIANE LAYERS	182.43
LIANES (-FOREST DAMAGE	442.3
LIBERATION CUTTING	243
LIBRARIANSHIP (FORESTRY)	945.14
LICHEN LAYERS (ARBOREAL)	182.44
LICHENS	172.9
LIFE FORM	181.61
LIFTING METHODS (NURSERY)	232.324.1
LIFTING METHODS (PLANTING STOCK)	232.412.1
LIGHT INTENSITY (SOLAR)	111.211
LIGHT REQUIREMENTS	181.21
LIGHTNING (-FIRE DANGER	431.1
LIGHTNING (-FOREST DAMAGE	426.1
LIME FERTILIZER TRIALS	237.417*
LINE PLOT SURVEYS	524.632
LINE SEEDING	232.331
LINEAR MEASUREMENT UNITS	514
LINKAGE (GENETIC)	165.35*
LITHOSOLS	114.448
LITTER (-SOIL CHEMISTRY	181.343
LITTER (-SOIL FORMATION	114.351
LITTER -)CHEMICAL ANALYSIS	114.521.3
LITTER COMPOST	232.322.44
LITTER REMOVAL (-FOREST DAMAGE	462
LOAM	114.464
LOCOMOTION PHYSIOLOGY	131.7
LOCOMOTORY ORGANS	134.7
LOESS	114.468
LOG DUMP COSTS	662.4
LOG EXTRACTION COSTS	662.3
LOG RULES	526.6
LOG SCALING	526
LOG SCALING (ELECTRONIC)	526.5--015.71*
LOG SIZE (- CONVERSION COSTS	665
LOG VOLUME FORMULAE	526.5



LOGGING (-EROSION	116.28
LOGGING (-FOREST DAMAGE	461
LOGGING (-HYDROLOGY	116.28
LOGGING ENTERPRISE COSTS	66
LOGGING ENTERPRISE MANAGEMENT OPERATIONS	661
LOGGING EQUIPMENT COSTS	663.2
LOGGING OPERATIONS FINANCIING	676.13
LOGGING ROAD COSTS (PERMANENT)	663.26
LOGGING ROAD COSTS (TEMPORARY)	663.25
LONGEVITY (SEED)	181.524
LONGEVITY (TREE)	181.71
LONGITUDE (-SITE	113.1
LONGWAVE RADIATION (-SITE	111.212
LOOKOUT OBSERVER SYSTEMS	432.21
LOPPING SYSTEMS	222.3
LOW TEMPERATURE (-FOREST DAMAGE	422.1
LOW TEMPERATURE (-PLANTS	181.22
LOW TEMPERATURE (-SEED STORAGE	232.315.3
LOW TEMPERATURE DAMAGE (WINTER)	422.15
LOW THINNING	242
LUMBERING FIRE CONTROL	432.12
LYMANTRIA (-FOREST DAMAGE	453--145.718.77*
LYMPH PHYSIOLOGY	131.4
LYMPH SYSTEM	134.4

MACROBIOLOGY (SOIL)	114.68
MACRONUTRIENT PLANT CHEMISTRY	160.24
MACRONUTRIENTS (-GROWTH	181.341
MAGNESIUM (SOIL)	114.268 MG
MAGNESIUM DEFICIENCY (-TREE DAMAGE	424.7\$114.268 MG
MAGNESIUM FERTILIZER	232.322.42 MG
MAMMAE	134.6
MAMMALIA	149
MAMMALS (-FOREST DAMAGE	451
MAMMALS (-FOREST PEST CONTROL	411.15
MAN (-FOREST DAMAGE	46
MAN-CAUSED FOREST FIRES	431.3
MANAGEMENT (FINANCIAL)	676
MANAGEMENT (FOREST)	6
MANAGEMENT (OFFICE)	683
MANAGEMENT CONTROL	625
MANAGEMENT PLANNING (FOREST)	624
MANAGEMENT PLANNING (LOGGING ENTERPRISE)	661
MANAGEMENT PLANNING -) ECONOMIC THEORY	641
MANAGEMENT PLANS (SPECIFIC FOREST)	628
MANAGEMENT PLANS (- LOGGING COSTS	666
MANGANESE (PLANT MINERAL)	160.21 MN
MANGANESE (SOIL)	114.268 MN
MANPOWER MANAGEMENT (FOREST)	684
MANURE (GREEN) (-NURSERY BEDS	232.322.1
MANURE (GREEN) (-OUTPLANTS	232.425.2
MANURE (ORGANIC) (-NURSERY BEDS	232.322.43
MANURE (ORGANIC) (-OUTPLANTS	232.425.2
MAPPING	582
MAPPING (AERIAL)	587.3
MARKET VALUE (- FOREST VALUATION	652.52
MARSUPIALA	149.2
MASS SELECTION	165.38*
MAT-TOCK (-PLANT-ING)	232.427--087.2





MATURE STAND DISEASES	443.3
MATURE STANDS	228.8
MEAN ANNUAL FOREST PERCENT	651.4
MEAN SAMPLE TREE (- STAND VOLUME	524.34
MEAN STAND DIAMETER	521.22
MEAN STAND HEIGHT	522.3
MEASUREMENT UNITS	514/518
MEASURING ERRORS (- DIRECT MEASUREMENT	521.25
MECHANICAL CULTIVATION	232.325.22
MECHANICAL PLANTING	232.427--087.4
MECHANICAL SAMPLING	524.63
MEDICINAL BARKS	282.3
MEDICINAL LEAF CROPS	285
MEETINGS (ASSOCIATIONS/SOCIETIES)	946.1
MEETINGS (INTERNATIONAL FORESTRY)	971
MEETINGS (TECHNICAL/SCIENTIFIC)	946.2
MENDELIAN INHERITANCE (SIMPLE)	165.33*
MENSURATION (FOREST)	5
MENSURATIONAL SYSTEMS	51
MERCHANTABLE VOLUME	525.5
MESQUITE CONTROL	268.44
METABOLISM (HETEROPHYTE)	161.37
METABOLISM (PLANT)	161.2/.3
METEOROLOGY	111.0
METHODE DU CONTROLE	562.42
METHODE DU CONTROL (- YIELD REGULATION	624.1
METRIC SYSTEM	511
MICROCLIMATE	111.84
MICROCLIMATOLOGY	111.84
MICROFAUNA (SOIL)	114.67
MICROFLORA (-SOIL BIOLOGY	114.66
MICROFOSSILS (PLANT)	182.1
MICRONUTRIENT PLANT CHEMISTRY	160.24
MICRONUTRIENTS (-GROWTH	181.341
MICRORELIEF (-SITE	113.4
MICROSPORIDIA (-FOREST PEST CONTROL	411.11
MIGRATION (ANIMAL)	151.2
MINER DAMAGE (BARK)	416.5
MINER DAMAGE (LEAF)	416.12
MINERAL EXCHANGE (PLANT-SOIL)	181.32
MINERAL FERTILIZER (-NURSERY BEDS	232.322.41
MINERAL FERTILIZER (-OUTPLANTS	232.425.1
MINERAL NITROGEN	114.261
MINERAL NUTRIENTS -)ASH ANALYSIS	160.21
MINERAL NUTRIENT CHEMISTRY	160.24
MINERAL NUTRITION REQUIREMENTS	181.341
MINERAL SOILS	114.36
MIST	111.75
MIST BLOWERS	414.22--087.4
MIST SPRAYS (NURSERY)	232.325.1
MIXED PLANTATIONS	235.5
MIXED STAND ATTRIBUTES	228.3
MOISTURE CONTENT (FOREST FUELS)	431.2
MOISTURE CONTENT (SEED)	232.318
MOISTURE CONTENT (SOIL)	114.122
MOISTURE REGIME (SOIL)	114.12
MOLLUSCA	144
MOLYBDENUM (SOIL)	1-14.268-MO
MONOCOTYLEDONAE	175.2
MONOTREMATA	149.1



MOR	114.355
MONURON	441--414.12 MON
MORaine SOILS	114.467
MORPHOGENESIS (PLANT)	181.6
MORPHOLOGIC VARIATION	165.51
MORPHOLOGY (PLANT)	164
MORTALITY (- STAND VOLUME	562.22
MOSS SYNUSIA	182.48
MOTION PICTURES (- PUBLIC RELATIONS	945.22
MOULDS	172.8
MOUND PLANTING	232.421
MOVEMENT (PLANT)	161.8
MOVEMENT PHYSIOLOGY (ANIMAL)	131.7
MULCH (-OUTPLANTS	232.425.3
MULCHING (SEEDBED)	232.325.3
MULCHING (-DIRECT SEEDING	232.332
MULL	114.356
MULTIPLE PRODUCT MANAGEMENT (-FIRM ECONOMICS	644.5
MULTIPLE PRODUCTS ENTERPRISE	644
MULTIPLE USE (- FOREST RESOURCES	908
MULTIPLE USE -) RECREATION	907.2
MUNICIPAL OWNERSHIP (- FOREST POLICY	922.2
MURIDAE	149.32 MURID
MUSKEG	114.441.1
MUTUALISM (ANIMAL)	151.351
MYCOFLORA (-SOIL BIOLOGY	114.66
MYCOLOGY (SYSTEMATIC)	172.8
MYCOPARASITES	443--411
MYCORRHIZAL INNOCULATION (-NURSERY BEDS	232.322.45
MYCORRHIZAL INNOCULATION (-OUTPLANTS	232.425.4
MYCORRHIZAL SYMBIOSIS	181.351
MYCOTROPHY	181.351
MYRIOPODA	145.6
MYXOMYCETES	172.4
MYXOTHALLOPHYTA	172.4

NASTIC MOVEMENT	161.8
NATIONAL FOREST ADMINISTRATION	681
NATIONAL FOREST DEVELOPMENT POLICY	922.1
NATIONAL FORESTRY POLICY	903
NATIONAL PARK FORESTS	907.11
NATIONALIZATION (- FOREST POLICY	921
NATURAL AREA AMENITY VALUES	907.12
NATURAL AREAS	228.81
NATURAL BARRIERS (-FIRE CONTROL	432.18
NATURAL CONTROL (-FOREST FUNGI	443--411
NATURAL CONTROL (-FOREST PESTS	411
NATURAL ENEMIES	151.4
NATURAL ENEMIES (-FOREST PEST CONTROL	411.1
NATURAL EROSION	116.2
NATURAL HYBRIDS	165.71
NATURAL LAYERING	181.51
NATURAL PRUNING	181.63
NATURAL RANGE (PLANT)	181.1
NATURAL REGENERATION	231
NATURAL SECOND-GROWTH	228.82
NATURAL SELECTION	165.61
NATURAL STAND ATTRIBUTES	228.8
NATURAL SUCCESSION	182.21





NATURAL THINNING	242
NATURAL VARIATION (ANIMAL)	135
NATURAL VARIATION (PLANT)	165.5
NAVAL STORES	284
NECTAR EXUDATION	161.35
NEEDLE AREA	532
NEEDLE BLIGHT/CAST DAMAGE	416.15
NEEDLE MINER DAMAGE	416.12
NEMATODE CONTROL (NURSERY)	232.327.4
NEMATODE PARASITES (-FOREST PEST CONTROL	411.11
NERVE SYSTEM	134.8
NEST SEEDING	232.331
NET FINANCIAL YIELD (STAND)	651.2
NET GROWTH	562.21
NEWS RELEASES	945.21
NITRIFICATION (SOIL)	114.61
NITROGEN (CELLULAR)	160.22 N
NITROGEN (MINERAL)	114.261
NITROGEN (SOIL)	114.261
NITROGEN CYCLE (-PLANT NUTRITION	181.34
NITROGEN DEFICIENCY (-TREE DAMAGE	424.7\$114.261
NITROGEN FERTILIZER	232.322.411
NITROGEN FERTILIZER RESPONSE	237.411*
NITROGEN FIXATION	161.38
NITROGEN METABOLISM (AUTOPHYTE)	161.33 N
NOMOGRAPHS (- STAND VOLUME CALCULATION	525.1
NOTCH PLANTING	232.421
NOTCHING	243.8
NOXIOUS RANGE PLANT ERADICATION	268.44
NURSE CROPS	235.4
NURSE SHRUBS	235.42
NURSE TREES	235.41
NURSERIES (FOREST TREE)	232.3
NURSERY CULTIVATION	232.325
NURSERY INNOCULATION	232.322.45
NURSERY METHODS	232.32
NURSERY PROTECTION	232.327
NURSERY PRUNING	232.326
NURSERY SEEDING	232.323
NURSERY SITES	232.321
NURSERY SOIL MANAGEMENT	232.322
NURSERY TRANSPLANT SPACING	232.324.3
NURSERY TRANSPLANTS	232.324
NURSERY VEGETATIVE PROPAGATION	232.328
NUT CROPS	283.2
NUTRIENT DEFICIENCY (-FOREST DAMAGE	424.7
NUTRIENT ELEMENTS (PLANT)	160.21
NUTRIENT MODES (PLANT)	181.35
NUTRIENT REGIME (ANIMAL)	151.3
NUTRIENT REGIME (SOIL)	114.52
NUTRIENT REQUIREMENTS (PLANT)	181.341
NUTRIENT SOLUTION CULTURES	232.323.7
NUTRITION (-ANIMAL PHYSIOLOGY	131.3
NUTRITION (-PLANT PHYSIOLOGY	161.2/.3
O HORIZON	114.35
O1 HORIZON	114.351
O2 HORIZON	114.354
OAK WILT (-FOREST DAMAGE	443.3--172.8 CHA





OBITUARIES	902.1
OCNERIIDAE	145.718.77*
OCULAR ESTIMATION	524.38
ODOCOILEUS SPP. -)FOREST DAMAGE CONTROL	451.2--149.6 ODO
OFFICE MANAGEMENT	683
OIL SEEDS	283.3
OLD-GROWTH STANDS	228.8
OLEORESIN EXUDATION	161.35
ONTOGENY (ANIMAL)	133
ONYCHOPHORA	145.5
OOGONIA	163.5*
OPEN RANGE GRAZING	268.2
OPERATING UNIT SIZE (- ENTERPRISE ECONOMICS	644.4
ORCHARDS (SEED)	232.311.3
ORGANIC COMPOUNDS (PLANT)	160.22
ORGANIC HORIZONS (SOIL)	114.35
ORGANIC MANURE (-FOREST SITE	237.4
ORGANIC MANURE (-NURSERY BEDS	232.322.43
ORGANIC MANURE (-OUTPLANTS	232.425.2
ORGANIC SOIL-CHEMISTRY	114.27
ORGANIZATION STRUCTURE (PUBLIC FOREST)	681.2
ORGANOLOGY (ANIMAL)	134
ORGANOLOGY (PLANT)	164
ORNAMENTAL TREES	273
ORTHOPTERA	145.704*
ORTHOPTERA (-FOREST DAMAGE	453--145.704*
OSIERS	286
OSMOSIS PHYSIOLOGY	161.7
OUTBREAK PREDICTION	450
OUTPLANTING	232.4
OVA	163.61*
OVERFERTILIZATION (-FOREST DAMAGE	424.6
OVERHEAD COST DISTRIBUTION (LOGGING)	662.1
OVERHEAD-RELEASE	243
OVERLAND FLOW	116.2
OVERSTORY-LAYER	182.41
OVULES	163.11*
OWNERSHIP POLICY (FOREST)	92

PACING	581
PACKING MEDIA (PLANTING STOCK)	232.412.4
PALEOBOTANY	182.1
PALEOCLIMATOLOGY	111.83
PALEOECOLOGY	182.1
PALYNOLOGY	182.1
PAN (SUBSURFACE SOIL)	114.362
PAN (SURFACE SOIL)	114.361
PARALLEL METHOD FIRE SUPPRESSION	432.33
PARASITES (ANIMAL)	151.42
PARASITES (INSECT) (-FOREST PEST CONTROL	411.12
PARASITES (PLANT) (-FOREST-DAMAGE	442.1
PARASITES (-FUNGI	443--411
PARASITES (-INSECTA	151.42--145.7
PARASITIC ANIMAL NUTRITION	151.352
PARASITIC-PLANT-NUTRITION	181.352
PARENT MATERIAL (HORIZON)	114.369 R
PARENT-MATERIAL (-SOIL-FORMATION	114.32
PARKS (NATIONAL)	907.11
PARKS (URBAN)	272



PARK TREES (URBAN)	273
PARTIAL CUTTING	221.42
PARTIAL SEEDING	232.331
PASTURE MANAGEMENT	268
PASTURES -)EROSION CONTROL	116.61
PATCH SEEDING	232.331
PATHOLOGY (FOREST)	44
PATROL (FIRE)	432.22
PAY RATES (FOREST WORKER)	684
PEAT SOILS	114.444
PEDOLOGY	114
PELLETING (SEED)	232.315.4
PERCOLATION (-SOIL FORMATION	114.31
PERCOLATION -)VEGETATION	116.251*
PERMANENT ROAD SYSTEMS	686.31
PERMEABILITY (SOIL)	114.123
PERMEABILITY (SOIL) (-RUNOFF	116.24
PERSONNEL MANAGEMENT (PUBLIC FOREST)	681.3
PESTICIDE APPLICATION METHODS	414.2
PESTICIDE PREPARATIONS	414.1
PESTICIDE SIDE EFFECTS	414.4
PESTS (ANIMAL) -)NURSERY PROTECTION	232.327.3
PESTS (BIRD) -)NURSERY PROTECTION	232.327.3
PESTS (FOREST) -)NATURAL ENEMIES	411.1
PESTS (INSECT) -)NURSERY PROTECTION	232.327.4
PH FACTOR (NURSERY SOIL)	232.322.3
PH FACTOR (SOIL)	114.25
PHANEROGAMS	174
PHANEROGAMOUS PLANTS (-FOREST DAMAGE	442.1
PHENOLOGY	181.8
PHENOTYPE	181.6
PHENOTYPIC VARIATION	165.51
PHOSPHATE FERTILIZER RESPONSE	237.412*
PHOSPHOROUS -(SOIL)	114.262
PHOSPHOROUS FERTILIZER	232.322.412
PHOTO-CRUISEING	587.5
PHOTO INTERPRETATION	587.2
PHOTOGRAMMETRY	587
PHOTOGRAPHIC AIDS (- PUBLIC RELATIONS	945.22
PHOTOMAPS	587.3
PHOTOPERIOD (-NURSERY STOCK	232.323.7
PHOTOPERIOD (-YOUNG GROWTH	181.21--181.8
PHOTOSYNTHATE RESERVES	161.34
PHOTOSYNTHESIS	161.32
PHYLLOTAXY	164.4/5
PHYLOGENY (ANIMAL)	135
PHYLOGENY (PLANT)	165.1
PHYSICAL ANALYSIS (SOIL)	114.15
PHYSICAL CONTROL (-FOREST PROTECTION	413
PHYSICAL CONTROL (-FOREST WEEDS	441--413
PHYSICAL PROPERTIES (SOIL)	114.1
PHYSIOLOGIC VARIATION	165.53
PHYSIOLOGY (ANIMAL)	131
PHYSIOLOGY (PLANT)	161
PHYTOCHEMISTRY	160
PHYTOCOENOSTICS	182
PHYTOGENESIS	165
PHYTOGEOGRAPHY	187





DOMESTIC SUBDIVISION FOR FOREST COVER TYPES.	187+2
USERS OF CTS CARD SERVICES WHO REQUIRE THIS	187+3
MAY WRITE TO PSW BERKELEY FOR A COPY. USERS	187+4
WISHING TO CLASSIFY THEIR OWN MATERIAL MAY USE	187+5
SAF TYPE NUMBERS TIED TO 187, E.G.	187+6
187.001 JACK PINE,	187+7
187.040 POST OAK-BLACK OAK,	187+8
187.201 WHITE SPRUCE.	187+9

PHYTOPHYSIOLOGY	161
PHYTOSARCODINA	172.4
PHYTOSOCIOLOGICAL DATA	182.5
PHYTOSOCIOLOGY	182
PHYTOTOMY	164
PHYTOTOXIC EFFECTS (PESTICIDE)	414.4
PIONEER SPECIES	182.21
PISCES	147
PIT PLANTING	232.421
PLANIMETRY	583
PLANT ADAPTATION (-)CLIMATE	181.2
PLANT ANALYSIS (-)SOIL FERTILITY	114.521.5
PLANT ANATOMY	164
PLANT ANTAGONISM	181.41
PLANT ASSOCIATIONS	182.3
PLANT ASSOCIATIONS (- SITE INDEX	542
PLANT CHEMISTRY	160
PLANT COMMUNITIES	182.3
PLANT COMMUNITY (-)SOIL INDICATOR	114.521.7
PLANT COMPETITION	181.41
PLANT COVER (-)HYDROLOGY	116.25
PLANT DURATION	181.71
PLANT ECOLOGY	18
PLANT EVOLUTION	165
PLANT GEOGRAPHY	187

SEE NOTE UNDER PHYTOGEOGRAPHY 187+1

PLANT GROWTH	161.4
PLANT GROWTH (-)SOIL TYPE	181.32
PLANT HABIT	181.6
PLANT IDENTIFICATION	174--014
PLANT INJECTION (-)FOREST PROTECTION	414.26
PLANT INJURY DIAGNOSIS	416
PLANT METABOLISM	161.2/.3
PLANT MORPHOLOGY	164
PLANT NUTRITION (-)SOIL PROPERTIES	181.34
PLANT PARASITES (-)FOREST DAMAGE	442.1
PLANT PHYSIOLOGY	161
PLANT PHYSIOLOGY (-)AGE	181.75
PLANT PROTECTION	41
PLANT REGULATORS	161.4 GS
PLANT REPRODUCTION (ASEXUAL)	181.51
PLANT REPRODUCTION (SEXUAL)	181.52
PLANT REPRODUCTION (-)ENVIRONMENT	181.5
PLANT REPRODUCTION PHYSIOLOGY	161.6
PLANT RESERVES	161.34
PLANT SOCIOLOGY	182



PLANT SUCCESSION	182.21
PLANT SYNECOLOGY	182
PLANT-SOIL RELATIONS	181.32
PLANT-WATER RELATIONS	181.31
PLANTATION CARE (EARLY STAGE)	236
PLANTATION ECOLOGY	182.8
PLANTATION STAND ATTRIBUTES	228.7
PLANTATION STAND ESTABLISHMENT	232.4
PLANTING (FOREST)	232.4
PLANTING (REPAIR)	236.5*
PLANTING MACHINES	232.427---087.4
PLANTING METHODS (FOREST)	232.42
PLANTING STOCK	232.41
PLANTING STOCK ATTRIBUTES	232.411
PLANTING STOCK HANDLING	232.412
PLANTING TIME	232.44
PLANTING TOOLS	232.427
PLASMODROMA	143
PLOIDY	165.42
PLOT SAMPLING SURVEYS	524.634
PLOT SIZE	524.635
PLOTLESS CRUISING	524.63\$521.62
PLOTLESS CRUISING (- STAND BASAL AREA	521.62
PLOWING (-ARTIFICIAL REGENERATION	232.216
PLOWING (-FOREST SOIL	237.1
PLUS TREES	232.311.2
PODZOL	114.441.2
PODZOLIC SOILS	114.441.4
POINT SAMPLING (- STAND BASAL AREA	521.62
POINT-SAMPLE CRUISING	524.63\$521.62
POISONING (TREE)	243.8
POISONOUS RANGE PLANT ERADICATION	268.44
POLE-STAGE STANDS	228.5
POLICY (FOREST)	90
POLLARDING SYSTEMS	222.3
POLLEN ANALYSIS	182.1
POLLEN GERMINATION	163.32*
POLLEN MORPHOLOGY	164.6 POLLEN
POLLINATION (CONTROLLED)	165.41
POLLINATION -)ENVIRONMENT	181.521
POLYHEDROSIS	151.42 VIRUS
POLYPLOIDY	165.42
POPLAR PLANTATION METHODS	238
POPULATION CYCLE (ANIMAL)	153
POPULATION SAMPLING	153--015.5
POPULATION SAMPLING (-FOREST PROTECTION	450
POROSITY (SOIL) (-SOIL MOISTURE	116.24
POSITION CLASSIFICATION (PUBLIC FOREST)	681.3
POT PLANTING	232.429
POTASSIUM (SOIL)	114.264
POTASSIUM DEFICIENCY (-TREE DAMAGE	424.7\$114.264
POTASSIUM FERTILIZER	232.322.414
POTENTIAL EVAPORATION	116.13
POTTED NURSERY STOCK	232.329.6
POWER LINE RIGHTS OF WAY	686.33
PRAIRIE FOREST SOILS	114.441.5
PRAIRIE SOILS	114.441.6
PRECIPITATION	111.77
PRECIPITATION (-FOREST DAMAGE	423
PRECIPITATION FORMS	111.78





PRECOMMERCIAL THINNING	242
PREDATOR-PREY RELATIONS	151.4
PREDATORS	151.41
PREDATORS (INSECT) (-FOREST PEST CONTROL	411.12
PREDATORS (-INSECTA	151.41--145.7
PREDATORS -)GAME MANAGEMENT	156.1
PRESCRIBED BURNING	436
PRESCRIBED BURNING (-NATURAL REGENERATION	231.322
PRESCRIBED BURNING (-PEST CONTROL	413.3
PRESCRIBED BURNING (-WEED CONTROL	441--413.3
PRESS RELEASES	945.21
PRESUPPRESSION	432.1
PRETREATMENT (SEED)	232.315.3
PRETREATMENT (-ARTIFICIAL REGENERATION	232.21
PRETREATMENT (-NATURAL REGENERATION	231.3
PREVENTION (FIRE)	432.1
PRICE LEVELS (- ENTERPRISE ECONOMICS	644.7
PRIVATE FOREST ADMINISTRATION	682
PRIVATE FOREST DEVELOPMENT POLICY	923
PRIVATE FORESTRY ECONOMICS	64
PRODUCTION (RANGE)	268.5
PRODUCTION COSTS (STANDING TIMBER)	651.6
PRODUCTION GOALS (FOREST)	654
PRODUCTION PROCESSES (- ENTERPRISE STRUCTURE	644
PRODUCTIVITY (FOREST LABOR)	961
PROFESSIONAL FORESTRY EDUCATION	945.31
PROFILE (SOIL)	114.35/.36
PROFITABILITY ESTIMATION (FORESTRY)	651
PROGENY TESTS (-SEED CERTIFICATION	232.314
PROGENY TRIALS	232.13
PROGRAM DEVELOPMENT (FORESTRY)	903
PROGRESSIVE CLEARSTRIP METHOD	221.221
PROPERTY VALUATION (FOREST)	672.1
PROTECTION (DIRECT SEEDED SITE)	232.336
PROTECTION (FOREST)	41
PROTECTION (FOREST) -)FOREST LAW	935.4
PROTECTION (NURSERY)	232.327
PROTECTION FOREST LEGISLATION	934
PROTECTION FOREST MANAGEMENT PLANS	627.1
PROTECTION FORESTS	907.32
PROTOSTOMATA	144
PROTOZOA	143
PROTOZOA (-FOREST PEST CONTROL	411.11
PROTRACHEATA	145.5
PROVENANCE (-GENETIC TRAITS	165.53
PROVENANCE TRIALS	232.12
PRUNING (GREEN)	245.13
PRUNING (NATURAL)	181.63
PRUNING (-FOREST PEST CONTROL	413.2
PRUNING (- FORM FACTOR	561.3
PRUNING -) ECONOMIC EVALUATION	651.73
PRUNING NURSERY STOCK	232.326
PRUNING TOOLS	245.14
PRUNING YOUNG STANDS	245.1
PTERIDOPHYTA	173.5
PUBLIC FOREST ADMINISTRATION	681
PUBLIC OWNERSHIP (- FOREST POLICY	922
PUBLIC POLICY (- FORESTS	90
PUBLIC RELATIONS	945.2
PUDDLING	232.412.5





PULPWOOD VOLUME  
PURE STAND ATTRIBUTES

527  
228.2

QUALITATIVE INHERITANCE	165.37*
QUALITY INCREMENT	561.5
QUALITY THINNING	242
QUARANTINE MEASURES (FOREST)	415
QUARTER-GIRTH MEASURE	516.25
QUARTERS (EMPLOYEE)	965

R HORIZON	114.369 R
RACE TRIALS	232.12
RACIAL VARIATION	165.52
RADIAL INCREMENT	561.21
RADIATION	111.21
RADIATION (SOLAR)	111.211
RADIATION (-FOREST DAMAGE	429\$U.539.16
RADIATION (-RUNOFF	116.21
RADIO COMMUNICATIONS (FOREST)	685.2
RADIO PROGRAMS (- PUBLIC RELATIONS	945.23
RAILROAD FIRE CONTROL	432.11
RAIN	111.783
RAIN (-FOREST DAMAGE	423.1
RAIN DAMAGE PREVENTION (NURSERY)	232.327.11
RAIN MIXED WITH SNOW	111.781
RAINFALL (-RUNOFF	116.21
RAINFALL (-SURFACE EROSION	116.21
RAINFALL INTERCEPTION (CANOPY)	116.11
RANDOM SAMPLING	524.63
RANGE DEVELOPMENT	268.4
RANGE EROSION CONTROL	116.61
RANGE MANAGEMENT	268
RANGE MANAGEMENT -) MULTIPLE USE PLANNING	908.1
RANGE PLANT SEED HANDLING	232.31 R*

ADDING R* TO APPLICABLE SEED NUMBERS SORTS	232.31 R*+1
RANGE AND FORAGE SEED LITERATURE OUT FROM	232.31 R*+2
SILVICULTURAL LITERATURE, E.G.	232.31 R*+3
232.311 R* RANGE SPECIES SEED CROPS	232.31 R*+4
232.312.1 R* RANGE SPECIES SEED COLLECTION	232.31 R*+5

RANGE PRODUCTION	268.5
RAW HUMUS	114.355
RECLAMATION (FOREST LAND)	237
RECONNAISSANCE (- FOREST MANAGEMENT	621
RECORDING METHODS (DATA)	524.41
RECORDS MANAGEMENT	683
RECREATION	907.2
RECREATION USE (-FOREST DAMAGE	469\$907.2
RECRUITMENT	945.3
RECRUITS (INGROWTH)	562.23
REDEARTHES	114.441.7
REFRIGERATED PLANTING STOCK	232.412.3
REFUGES (WILDLIFE)	156.2
REFUGES (WILDLIFE) -) FORESTS/WILDERNESSES	907.13
REGENERATION (ARTIFICIAL)	232



REGENERATION (NATURAL)	231
REGENERATION (POST-FIRE)	434
REGENERATION (STAND)	23
REGENERATION -) FOREST LAWS	935.1
REGENERATION -) MANAGEMENT PLANNING	624.3
REGENERATION CUTTING	221.21
REGENERATION METHODS -) ECONOMIC EVALUATION	651.72
REGENERATION SURVEY	236.4
REGIONAL PLANNING -) FORESTS	911
REGOSOLS	114.448
REGRASSING	268.41
REGULATION (YIELD)	624.1
REGULATIONS (FOREST)	931
REGULATIONS (FOREST PRACTICE)	935.1
REGULATORS (PLANT)	161.4 GS
RELASCOPE (- STAND BASAL AREA	521.62
RELEASE	243
RELEASE (YOUNG GROWTH)	236.1
RELEASE -) ECONOMIC EVALUATION	651.75
RELIC TREES	907.12
RELIEF (-SITE	113.4
RENDZINA	114.446.1
REPAIR PLANTING	236.5*
REPELLENTS (-ANIMAL DAMAGE CONTROL	451--414.1
REPELLENTS (-PEST CONTROL	414.14
REPLANTING	236.5
REPRODUCTION (ASEXUAL PLANT)	181.51
REPRODUCTION (SEXUAL PLANT)	181.52
REPRODUCTION CUTTING	221.21
REPRODUCTIVE BEHAVIOR (ANIMAL)	151.5
REPRODUCTIVE BEHAVIOR (PLANT)	181.5
REPRODUCTIVE ORGAN INJURY (PLANT)	416.2
REPRODUCTIVE ORGANS (ANIMAL)	134.6
REPRODUCTIVE ORGANS (CRYPTOGAM)	164.2
REPRODUCTIVE ORGANS (PHANEROGAM)	164.6
REPRODUCTIVE PHYSIOLOGY (ANIMAL)	131.6
REPRODUCTIVE PHYSIOLOGY (PLANT)	161.6
REPTILES (-FOREST PEST CONTROL	411.13
REPTILIA	148.1
RESEARCH	945.4
RESEEDING (RANGE)	268.41
RESERVE CUTTING METHOD	221.21
RESERVES (PLANT)	161.34
RESERVES (TIMBER)	618
RESIN EXUDATION	161.35
RESIN TAPPING	284.1
RESOURCES (FOREST)	905.2
RESOURCES (FOREST) -) MULTIPLE USE	908
RESPIRATION (ANIMAL)	131.2
RESPIRATION (PLANT)	161.2
RESPIRATION (SOIL)	114.6
RESPIRATION SYSTEM (ANIMAL)	134.2
RESPONSE (ANIMAL BEHAVIOR)	151.6
RETARDANTS (-FIRE SUPPRESSION	432.331
REVEGETATION (POST-FIRE)	434
REVEGETATION (RANGE)	268.41
REVENUE ACCOUNTING (FOREST)	671
REVISION (MANAGEMENT PLAN)	626
RHOPALOCERA	145.718.60/.65*
RHIZOSPHERE ECOLOGY	181.36





RIDGE PLANTING	232.422
RIGHTS OF WAY (FOREST)	686.33
RILL EROSION	116.2
RIME	111.744.2
RIME (-FOREST DAMAGE	423.2
RING COUNTS (- TREE AGE DETERMINATION	551
RING MEASUREMENT (- INCREMENT	561.23
RING WIDTH VARIATION	561.24
RIPARIAN VEGETATION (-RUNOFF	116.25
RISK RATING (FIRE)	431.5
RIVERAIN FORESTS	263
ROAD COSTS (PERMANENT LOGGING)	663.26
ROAD COSTS (TEMPORARY LOGGING)	663.25
ROADS (FOREST)	686.3
RODENT CONTROL (FOREST)	451.2--149.32
RODENTIA	149.32
ROGUING	232.311.2
ROOT (-SOIL CHEMISTRY	181.343
ROOT CUTTINGS (NURSERY PLANTED)	232.328.2
ROOT DRESSINGS (PLANTING STOCK)	232.412.6
ROOT EXPOSURE (PLANTING STOCK)	232.412.4
ROOT EXUDATES	161.35\$181.36
ROOT GRAFTS	181.36 RG
ROOT INJURY	416.3
ROOT MORPHOLOGY	164.3
ROOT PRUNING	232.326.1
ROOT PRUNING (NURSERY STOCK)	232.326.1
ROOT PRUNING (PLANTING STOCK)	232.412.2
ROOT SUCKER PROPAGATION (NURSERY)	232.328.3
ROOT SUCKER REGENERATION	231.5
ROOT SYSTEM -)OUTPLANTING	232.424
ROOT SYSTEMS ECOLOGY	181.36
ROOTED CUTTINGS FIELD SURVIVAL	232.411.4
ROOTING ABILITY (STEM CUTTINGS)	232.328.1
ROTATION (FINANCIAL)	651.5
ROTATION (NURSERY CROP)	232.322.1
ROTATION -) FOREST MANAGEMENT	613
ROTATION GRAZING	268.6
ROTATION PERIOD (- FOREST ECONOMY	642
ROUNDING OFF (- STEM MEASUREMENTS	521.24
ROW THINNING	242
RULES (LOG)	526.6
RUNOFF	116.2
RUNOFF -)HEAT BALANCE	116.21
RUNOFF -)RADIATION	116.21
RUNOFF -)RAINFALL	116.21
RUNOFF -)SNOWMELT	116.21
RUNOFF -)SOIL PERMEABILITY	116.24
RUNOFF -)TEMPERATURE	116.21
RUNOFF -)VEGETATION	116.253*
RUNOFF -)WATER BALANCE	116.21
RUST (WHITE PINE BLISTER)	443.3--172.8 CRO
RUST DAMAGE (LEAF)	415.15
RUST DAMAGE (STEM)	415.15

SALARY COSTS (LOGGING ENTERPRISE)	663.1
SALARY RATES (PUBLIC FOREST)	681.4
SALINE SOILS	114.445.1
SALT SPRAY (-FOREST DAMAGE	425.2



SALT TOLERATION (PLANT)	181.342
SALVAGE (FIRE DAMAGED TREE)	433
SALVAGE CUTTING	242
SAMPLE INTENSITY	524.631
SAMPLE PLOT DESIGN	564
SAMPLE PLOT VOLUME FORMULAE	524.31
SAMPLE TREE (- STAND VOLUME	524.34
SAMPLE TREES (- STAND VOLUME INCREMENT	562.41
SAMPLING (INCREMENT)	561.22
SAMPLING (POINT) (- STAND BASAL AREA	521.62
SAMPLING CRUISES	524.62
SAMPLING DESIGN	524.63
SAMPLING PLOT VARIABILITY	524.637
SANCTUARIES (BIRD) (-) FORESTS/WILDERNESSES	907.13
SANGTUARIES (GAME) (-) FORESTS/WILDERNESSES	907.13
SANDWICH PLANTING	232.429
SANDY SOILS	114.462
SANITATION CUTTING	243
SANITATION CUTTING (-PEST CONTROL	412
SAP FLOW	161.12
SAP-SUGAR TAPPING	284.4
SAWDUST COMPOST	232.322.44
SAWLOG SCALING	526
SCALES (MENSURATION)	51
SCALING (ELECTRONIC LOG)	526.5--015.71*
SCALING (LOG)	526
SCARIFICATION (-NATURAL REGENERATION	231.331
SCHIZOMYCETES	172.3
SCHIZOPHYCEAE	172.3
SCHIZOPHYTA	172.3
SCHOOLS (FORESTRY)	945.31
SCOLYTIDAE	145.719.92*
SCOLYTIDAE (-FOREST DAMAGE	453--145.719.92*
SEASIDE PLANTING	273.1
SEASON (FIRE)	431.4
SEASON (PLANTING)	232.44
SEASON (-DIRECT SEEDING DATE	232.335
SEASON (-SEEDING DATE	232.323.3
SEASON (-TRANSPLANTING DATE	232.324.4
SEASONAL EMPLOYMENT	963
SEASONAL GROWTH VARIATION	561.24
SEASONAL VARIATION	181.8
SECOND-GROWTH STANDS	228.82
SECRETION (ANIMAL)	131.4
SECRETION (PLANT)	161.35
SECTIONAL AREA	521.5
SECTIONAL AREA TABLES	521.51
SEDIMENTATION	116.3
SEED CERTIFICATION	232.314

SEED COAT STERILIZATION	232.315.1
SEED COLLECTION	232.312.1
SEED CROPS	232.311.1
SEED DESTRUCTION	416.2
SEED DISPERSION	181.523
SEED DORMANCY	181.524
SEED DORMANCY (-)PRETREATMENTS	232.315.3
SEED EXCHANGE	232.314
SEED EXTRACTION	232.312.2





SEED FUMIGATION	232.315.1
SEED GERMINATION	181.525
SEED GRADING/SORTING	232.312.3
SEED GRADING (-GERMINATION	232.312.3
SEED HANDLING	232.315
SEED LONGEVITY	181.524
SEED MORPHOLOGY	164.8
SEED ORCHARDS	232.311.3
SEED PRETREATMENT	232.315.3
SEED PRODUCING AREAS	232.311.21*
SEED PRODUCTION	232.311
SEED PRODUCTION -)ENVIRONMENT	181.522
SEED PRODUCTION PHYSIOLOGY	161.6
SEED PRODUCTS	283.3
SEED QUALITY	232.318
SEED SPOTTING	232.331
SEED STORAGE METHODS	232.315.2
SEED SUPPLIERS	232.314
SEED TESTING	232.318
SEED TRANSPORT	232.314
SEED TREE METHOD	221.21
SEED USE	232.31
SEED USE (RANGE PLANT)	232.31 R*

SEE NOTE UNDER RANGE PLANT SEED HANDLING 232.31 R\*+1

SEED VIABILITY -)ENVIRONMENT	181.524
SEED WEIGHTS	232.312.31
SEED YEAR	232.311.
SEEDBED PREPARATION	232.322.6
SEEDING (CLOUD) (-PRECIPITATION	111.775.3
SEEDING (DIRECT)	232.33
SEEDING (EROSION CONTROL) (-BURNS	116.65
SEEDING (EROSION CONTROL) (-PASTURES	116.61
SEEDING (NURSERY)	232.323
SEEDING DATE (DIRECT)	232.335
SEEDING DATE -)SEASON	232.323.3
SEEDING DENSITY	232.323.2
SEEDING EQUIPMENT	232.337
SEEDLING DISEASE CONTROL (NURSERY)	232.327.2
SEEDLING DISEASES	443.2
SEEDLING ECOLOGY	181.525
SEEDLING GRADING	232.324.2
SEEDLING MORPHOLOGY	164.9 SDL
SEEDLING RELEASE	236.1
SEEDLING SELECTION (-BREEDING STOCK	165.622*
SEEDLING SELECTION (-TRANSPLANT STOCK	232.324.2
SELECTION (BIOLOGICAL)	165.6
SELECTION (NURSERY SEEDLING)	232.324.2
SELECTION CUTTING SYSTEMS	221.4
SELECTION FOREST METHOD	221.41
SELECTION THINNING	242
SELECTIVE LOGGING	221.42
SELF-PRUNING	181.63
SELFING	165.41
SERIAL STAGES	182.21
SERE COMMUNITIES	182.21
SERVICE FORESTERS	945.1





SETTLEMENT (FOREST LAND)	912
SEXUAL PLANT REPRODUCTION	181.52
SHADE TOLERANCE	181.21
SHADE TREES	273
SHADE TREES (CROP)	289.4
SHADING (NURSERY)	232.327.12
SHADING (PROTECTIVE) (-SEEDLINGS)	236.3
SHEET EROSION	116.2
SHELTERBELTS	266
SHELTERWOOD CLEARSTRIP METHOD	221.223
SHELTERWOOD CUTTING METHOD	221.21
SHELTERWOOD COPPICE	222.2
SHELTERWOOD METHOD (IRREGULAR)	221.23
SHIFTING CULTIVATION	261.3
SHOOT CUTTINGS (NURSERY PLANTED)	232.328.1
SHOOT INJURY	416.1
SHOOT MORPHOLOGY	164.4
SHOOT PRUNING	232.326.3
SHOOT PRUNING (NURSERY STOCK)	232.326.3
SHOOT PRUNING (PLANTING STOCK)	232.412.2
SHOOTS (ADVENTITIOUS)	181.51
SHORT HAUL COSTS	663.24
SHORTWAVE RADIATION	111.211
SHOW ME TRIPS	945.24
SHRUB LAYERS	182.46
SHRUB NURSES	235.42
SIALIZATION	114.32
SIDE EFFECTS (PESTICIDE)	414.4
SIGNALS (VISUAL GROUND-AIR)	685.3
SILT SOILS	114.463
SILVICAL CHARACTERISTICS	181\$174
SILVICULTURAL CONTROL	412
SILVICULTURAL SYSTEM -) FOREST MANAGEMENT	614
SILVICULTURAL SYSTEMS	22
SILVICULTURAL SYSTEMS (- LOGGING COSTS)	666
SILVICULTURE	2
SIMAZINE	441--414.12 SIM
SIMPLE COPPICE METHOD	222.2
SIMPLE MENDELIAN INHERITANCE	165.35*
SINGLE TREE SELECTION METHOD	221.41
SITE ASSESSMENT	54
SITE CLASS (- INCREMENT	547
SITE CLASS (- TOTAL VEGETAL COVER	548
SITE CLASS CHANGE -) CLIMATE	546
SITE DESCRIPTION (- MANAGEMENT PLANNING	622
SITE FACTORS	11
SITE FERTILITY	114.521
SITE INDEX -) STAND HEIGHT/AGE	541
SITE PREPARATION (-ARTIFICIAL REGENERATION	232.21
SITE PREPARATION (-NATURAL REGENERATION	231.3
SITE QUALITY (- ENTERPRISE ECONOMICS	644.1
SITE SELECTION (NURSERY)	232.321
SITUATION (-SITE	113
SIZE (LOG) (- CONVERSION COSTS	665
SIZE CLASS (PLANTING STOCK)	232.411.3
SIZE CLASS (TREE)	228.125
SKELETAL SOILS	114.448
SKID ROADS	686.33
SKIDDING COSTS	662.3
SLASH DISPOSAL (-FUEL REDUCTION	432.16



SLEDDING COSTS	663.23
SLEET	111.784
SMOKE (INDUSTRIAL) (-FOREST DAMAGE	425.1
SMOKE CONTROL (INDUSTRIAL) -) FORESTS	907.4
SMOKE GENERATION (-PEST CONTROL	414.23
SMOKERS FIRE CONTROL	432.13
SNOW	111.784
SNOW (-FOREST DAMAGE	423.4
SNOW STORAGE	116.12
SNOWMELT (-INFILTRATION	116.21
SNOWMELT (-RUNOFF	116.21
SNOWMELT -)COVER	116.12
SOCIETIES (FORESTRY)	946.1
SOCIOLOGY (ANIMAL)	152
SODIUM (SOIL)	114.265
SODIUM ARSENITE	441--414.12 NAH
SOIL (-PLANT GROWTH	181.32
SOIL (-VEGETAL COVER	181.3
SOIL -)ARTIFICIAL DRAINING	237.2
SOIL ACID	114.25
SOIL ANALYSIS (CHEMICAL)	114.2
SOIL ANALYSIS (PHYSICAL)	114.15
SOIL ATMOSPHERE	114.13
SOIL BIOLOGY	114.6
SOIL CASTING (-FIRE SUPPRESSION	432.332
SOIL CHEMISTRY	114.2
SOIL CHEMISTRY (INORGANIC)	114.26
SOIL CHEMISTRY (ORGANIC)	114.27
SOIL CHEMISTRY -)COVER	181.343
SOIL CLASSIFICATION	114.4
SOIL CLASSIFICATION (GENETIC)	114.44
SOIL CLASSIFICATION (TEXTURAL)	114.46
SOIL CONDITION (-FOREST DAMAGE	424
SOIL CONSERVATION	116
SOIL DENSITY	114.11
SOIL DEPLETION	114.58
SOIL DEPTH	114.38
SOIL EXPECTATION VALUE	652.1
SOIL FAUNA	114.67/.68
SOIL FAUNA (-SOIL FORMATION	114.34
SOIL FERTILITY	114.52
SOIL FERTILITY -)CHEMICAL ANALYSIS	114.521.3
SOIL FERTILITY -)LEAF ANALYSIS	114.521.5
SOIL FORMATION	114.3
SOIL FORMING PROCESSES	114.30
SOIL FREEZING (-FOREST DAMAGE	422.14
SOIL FUNGI	114.66
SOIL HORIZONS	114.35/.36
SOIL INDICATOR	114.521.6
SOIL INJECTION (-FOREST PROTECTION	414.27
SOIL MACROFAUNA	114.68
SOIL MANAGEMENT (FOREST)	237
SOIL MANAGEMENT (NURSERY)	232.322
SOIL MAPS	114.45(084.3)
SOIL MICROFAUNA	114.67
SOIL MOISTURE	114.12
SOIL MOISTURE -)SOIL TEXTURE	116.24
SOIL MOISTURE STORAGE -)VEGETATION	116.254*
SOIL NITROGEN	114.261
SOIL PHYSICS	114.1





SOIL PREPARATION (-ARTIFICIAL REGENERATION	232.216
SOIL PROPERTIES (CHEMICAL)	114.2
SOIL PROPERTIES (PHYSICAL)	114.1
SOIL REACTION (NURSERY)	232.322.3
SOIL RENT	651.2
SOIL RESPIRATION	114.6
SOIL SALINITY (-PLANT GROWTH	181.342
SOIL SCIENCE	114
SOIL SOLUTION	114.28
SOIL STERILIZATION (NURSERY)	232.322.2
SOIL STRUCTURE	114.14
SOIL SURVEYS	114.7
SOIL TEMPERATURE	114.16
SOIL TEXTURE	114.15
SOIL TEXTURE CLASSIFICATION	114.46
SOIL TEXTURE (-INFILTRATION	116.24
SOIL TEXTURE (-WATER EROSION	116.24
SOIL TILLAGE (NURSERY)	232.322.5
SOIL TILLAGE (-ARTIFICIAL REGENERATION	232.216
SOIL TOXICANTS (-FOREST DAMAGE	424.5
SOIL TOXICITY	114.53
SOIL TREATMENT (-NATURAL REGENERATION	231.33
SOIL WATER	114.12
SOIL WATER (-FOREST DAMAGE	424.2
SOILING CROPS (NURSERY)	232.322.1
SOLAN	441--414.12 SOL
SOLAR CLIMATE	111.81
SOLAR RADIATION	111.211
SOLID VOLUME UNITS	516
SOLOCHAK	114.445.1
SOLONETZ	114.445.2
SOLOTI	114.445.3
SOLUM	114.36
SOLUTE UPTAKE	161.11
SORTING (SEED)	232.312.3
SPACING (NURSERY SEED)	232.323.2
SPACING (NURSERY TRANSPLANT)	232.324.3
SPACING (PLANTATION)	232.43
SPACING (PLANTATION) (-GROWTH	232.43
SPACING (PLANTATION) (-PEST CONTROL	412
SPECIES CHOICE (PLANTATION)	232.1
SPECIES CHOICE (-STAND COMPOSITION	228.0
SPECIES CHOICE -) ECONOMIC EVALUATION	651.71
SPECIES TRIALS	232.11
SPECIFIC GRAVITY (SOIL)	114.11
SPERMATAZOA	163.62*
SPERMATOPHYTA	174
SPLASH EROSION	116.2
SPOIL BANK SOIL	114.449.8
SPORANGIA	163.2*
SPORE VECTORS	181.59\$172.8\$145.7
SPORES	163.4*
SPORULATION	181.59\$172.8
SPORULATION PHYSIOLOGY	161.6
SPOT SEEDING	232.331
SPOTS (LEAF)	415.15
SPRAYING (-PEST CONTROL	414.22
STACKED VOLUME	527
STACKED VOLUME MEASURE	517
STAND AGE	552



STAND BASAL AREA	521.62
STAND COMPOSITION	228.2/.3
STAND DENSITY	228.1
STAND DENSITY MEASURES	535
STAND DESCRIPTION (- MANAGEMENT PLANNING	622
STAND DEVELOPMENT	228
STAND DIAMETER (MEAN)	521.22
STAND ESTABLISHMENT (ARTIFICIAL)	232.4
STAND FORM	228.5/.6
STAND FORMATION	23
STAND FORMATION -)DIRECT SEEDING	232.33
STAND HEIGHT (MEAN)	522.3
STAND IMPROVEMENT (DERELICT)	25
STAND IMPROVEMENT (TIMBER)	24
STAND IMPROVEMENT -) ECONOMIC EVALUATION	651.7
STAND IMPROVEMENT PLANNING	624.3
STAND INVENTORY SAMPLING	524.62
STAND STRUCTURE	228
STAND STRUCTURE (- ENTERPRISE ECONOMICS	644.2
STAND STRUCTURE PLANNING	624.2
STAND STRUCTURE/INCREMENT STUDIES	568
STAND TABLES	567
STAND VALUE	652.3
STAND VOLUME	524.3
STAND VOLUME -) MORTALITY	562.22
STAND VOLUME FORMULAE	524.314
STAND VOLUME INCREMENT	562.2
STAND VOLUME INCREMENT MEASURING METHODS	562.4
STAND VOLUME TABLES	524.315(083.5)
STAND VOLUME TABLES (AERIAL)	587.5
STANDARD ERROR (- VOLUME ESTIMATES	524.637
STANDARD MEASURES (AMERICAN)	512
STANDARD MEASURES (BRITISH)	512
STARLING DISPERSAL	413.4--452
STATE FOREST ADMINISTRATION	681
STATE FORESTRY DEVELOPMENT SERVICES	945.11
STATE OWNERSHIP (- FOREST POLICY	922.1
STATE SUBSIDY (- FOREST POLICY IMPLEMENTATION	941
STATISTICS (BUSINESS)	674
STATISTICS (ECOLOGICAL)	182.5
STATISTICS (FOREST)	905
STEM ANALYSIS	561.26
STEM CURVE FORMULAE	524.11
STEM CUTTINGS (NURSERY PLANTED)	232.328.1
STEM DIAMETER MEASUREMENTS	521.1
STEM FORM -)SITE	181.64
STEM HEIGHT/LENGTH MEASUREMENT	522
STEM INCREMENT	561.21
STEM INJURY	416.3/.5
STEM MEASUREMENTS (UPPER)	521.3
STEM MENSURATION	52
STEM MORPHOLOGY	164.4
STEM SIZE (- CONVERSION COSTS	665
STEM SURFACE AREA	536
STEMFLOW	116.11
STEREOPHOTOGRAMMETRY	587
STERILIZATION (NURSERY SOIL)	232.322.2
STERILIZATION (SEED COAT)	232.315.1
STOCK (GROWING) (- INCREMENT/YIELD	612
STOCK (HANDLING PLANTING)	232.412





STOCK (PLANTING)	232.41
STOCK CERTIFICATION (PLANTING)	232.411.1
STOCK SIZE (-OUTPLANT GROWTH	232.411.3
STOCKING DENSITY	535
STOMATA MORPHOLOGY	164.9 STO
STONE SOILS	114.466
STORAGE (PLANT)	161.34
STORAGE (SNOW)	116.12
STORAGE METHODS (SEED)	232.315.2
STORED PLANTING STOCK	232.412.3
STORM (ICE) (-FOREST DAMAGE	423.3
STORM (-FOREST DAMAGE	421.1
STRATEGY (FIRE SUPPRESSION)	432.32
STRATIFICATION (SEED)	232.315.3
STRATIFIED SAMPLING	524.634
STREAMFLOW	116.3
STREAMFLOW -)AFFORESTATION	116.38\$233
STREAMFLOW -)FORESTRY METHODS	116.38
STREAMFLOW -)GRAZING	116.36
STREAMFLOW -)RIPARIAN VEGETATION	116.35
STREAMFLOW -)TOPOGRAPHY	116.33
STRIP-AND-GROUP METHOD	221.226
STRIP CUTTING SYSTEMS	221.22
STRIP MINED SOIL	114.449.8
STRIP SURVEYS	524.632
STRIPPING (TREE)	243.8
STRONTIUM (SOIL)	114.268 SR
STRUCTURE (STAND)	228
STRUCTURE (STAND) (- ENTERPRISE ECONOMICS	644.2
STUDY PLOT DESIGN	564
STUDY TOURS	945.35
STUMP ANALYSIS	561.27
STUMP MEASUREMENTS (- DBH ESTIMATES	521.27
STUMPAGE SALES ARRANGEMENT	644.6
STUMPAGE VALUATION	652.51
SUBSIDIES (- FOREST POLICY IMPLEMENTATION	941
SUBSISTANCE (EMPLOYEE)	966
SUCCESSION	182.21
SUCCESSION -)FIRE CONTROL	435.1
SULPHAMATES	441--414.12 SUL
SULPHUR DIOXIDE (-FOREST DAMAGE	425.11
SULPHUR (PLANT MINERAL)	160.21 S
SUMMER DROUGHT (-FOREST DAMAGE	422.2
SUNSCORCH	422.3
SUPERFICIAL FOOT MEASURE	516.22
SUPERIOR TREE	232.311.2
SUPPRESSION (FIRE)	432.3
SUPPRESSION (TREE)	228.12
SURFACE AREA (STEM/BRANCH)	536
SURFACE COATINGS (-PEST-CONTROL	414.24
SURFACE EROSION	116.2
SURFACE RUNOFF	116.2
SURFACTANTS	414.16
SURFACTANTS (-FIRE SUPPRESSION	432.331
SURVEYING	58
SURVEYING (AERIAL)	585
SURVEYING (SOIL)	114.7
SURVEYS (GAME)	156.2
SURVEYS (GROUND)	581/584
SURVEYS (REGENERATION)	236.4





SURVEYS (REGIONAL FOREST)	524.61
SURVEYS METHODS/PLANNING (FOREST)	524.6
SURVIVAL (OUTPLANT) -) STOCK SIZE	232.411.3
SUSTAINED YIELD -) FOREST LAWS	935.1
SUSTAINED YIELD MANAGEMENT THEORY	611
SWISS FEMELSCHLAG	221.23
SYMBIOTIC ANIMAL NUTRITION	151.351
SYMBIOTIC PLANT NUTRITION	181.351
SYMBIOTIC PLANT PHYSIOLOGY	161.38
SYNECOLOGICAL COORDINATES	181.2/3
SYNECOLOGICAL MEASUREMENT	182.5
SYNECOLOGY	182
SYNECOLOGY (ANIMAL)	152
SYNECOLOGY (PLANT)	182
SYNUSIA	182.4
SYPHONOGAMIA	174
SYSTEMATIC BOTANY	17
SYSTEMATIC SAMPLING	524.63
SYSTEMATIC ZOOLOGY	14
SYSTEMICS (-FOREST PROTECTION	414.26
SZIK	114.445.2

TACTICS (FIRE SUPPRESSION)	432.32
TALLIES (CRUISE)	524.41
TANBARK	282.1
TAPER (- VOLUME FORMULAE	524.1
TAPER MEASUREMENTS	521.3
TAPER PERCENTAGE	524.14
TAPING	581
TAX ASSESSMENT -) FOREST VALUATION	652.52
TAXATION (FOREST)	95
TAXONOMY (HYBRID TREE)	165.7
TECHNICIAN TRAINING (FOREST)	945.33
TELEGRAPH NETWORKS (FOREST)	685.1
TELEPHONE NETWORKS (FOREST)	685.1
TEMPERATURE	111.2
TEMPERATURE (AMBIENT)	111.24
TEMPERATURE (PLANT)	161.9
TEMPERATURE (SOIL)	114.16
TEMPERATURE (-FOREST DAMAGE	422
TEMPERATURE (-PLANTS	181.22
TEMPERATURE (-RUNOFF	116.21
TEMPORARY ROADS	686.32
TENDING	24
TENTHREDINIDAE	145.721.06*
TENTHREDINIDAE (-FOREST DAMAGE	453--145.721.06*
TENURE RIGHTS (-ENTERPRISE ECONOMICS	644.5
TENURE RIGHTS -) FOREST LAW	935.5
TERATOLOGY (PLANT)	162
TERRA ROSSA	114.441.7
TERRACING (EROSION CONTROL)	116.62
TERRESTRIAL RADIATION	111.212
TEXTURE (SOIL)	114.15
TEXTURE CLASSIFICATION (SOIL)	114.46
THALLOPHYTA	172.2
THALLUS MORPHOLOGY	164.2
THECAE	163.12*
THERMAL RADIATION	111.212
THERMODYNAMICS (ATMOSPHERIC)	111.11



THERMOPERIOD (-PLANT GROWTH	181.22--181.8
THINNING (CROWN) (-REGENERATION	231.31
THINNING (NURSERY SEEDLING)	232.325.4
THINNING -) ECONOMIC EVALUATION	651.74
THINNING RATIOS	535
THINNINGS	242
THINNINGS (- STAND VOLUME	562.22
THUNDERSTORMS	111.15
TIDAL ZONE PLANTING	273.1
TILLAGE (NURSERY SOIL)	232.322.5
TILLAGE (-ARTIFICIAL REGENERATION	232.216
TILLAGE (-NATURAL REGENERATION	231.231
TIMBER APPRAISAL	652.51
TIMBER CRUISE DATA RECORDING	524.41
TIMBER CRUISING	524.62
TIMBER INSURANCE	943
TIMBER LOANS	942
TIMBER MANAGEMENT PLANNING	624
TIMBER PRODUCTION COSTS (STANDING)	651.6
TIMBER RESERVES -) FOREST MANAGEMENT	618
TIMBER SALES ARRANGEMENTS	644.6
TIMBER STAND IMPROVEMENT	24
TIMBER STAND IMPROVEMENT -) COST-BENEFIT RATIO	651.7
TIMBER UTILIZATION (- ENTERPRISE ECONOMICS	644.2
TIMBER-RELATED CROPS	28
TISSUE CULTURE	168--012
TOOLS (PLANTING)	232.427
TOP PRUNING	232.326.3
TOPOGRAPHY (-HYDROLOGY	116.23
TOPOGRAPHY (-SITE	113.4
TOPOGRAPHY (-WATER EROSION	116.23
TOPOSEQUENCE (SOIL)	114.411
TORRENT EROSION	116.3
TORTRICIDAE	145.718.28*
TORTRICIDAE (-FOREST DAMAGE	453--145.718.28*
TOTAL CUBIC VOLUME MEASURE	516.21
TOURS (SHOW ME)	945.24
TOURS (STUDY)	945.35
TOXIC EFFECTS (BIOCIDE)	414.4
TOXICANTS (SOIL)	114.53
TOXICANTS (SOIL) (-FOREST DAMAGE	424.5
TRACE ELEMENT DEFICIENCY (-FOREST DAMAGE	424.7
TRACE ELEMENT FERTILIZER (-NURSERY BEDS	232.322.42
TRACE ELEMENT FERTILIZER (-OUTPLANTS	232.425.1
TRACE ELEMENT REGIME	181.341
TRACE ELEMENTS (PLANT)	160.21
TRACE ELEMENTS -) PLANT ANALYSIS	114.521.5
TRACTOR LOGGING COSTS	663.24
TRAILS (FOREST DEVELOPMENT)	686.3
TRAINING (VOCATIONAL FORESTRY)	945.33
TRAINING PROGRAMS	945.3
TRANSITION ZONES (VEGETATION)	182.23
TRANSLOCATION (-PLANT RESERVES	161.34
TRANSLOCATION MECHANICS	161.12
TRANSMISSION LINE EASEMENTS	686.33
TRANSPIRATION (PLANT)	161.16
TRANSPIRATION -) COVER	116.13
TRANSPIRATION RESISTANCE	161.16--181.311
TRANSPLANT BEDS PREPARATION	232.322.6
TRANSPLANT LIFTERS	232.324.1





TRANSPLANT SPACING (NURSERY)	232.324.3
TRANSPLANTING	232.324
TRANSPLANTING DATE -) SEASON	232.324.4
TRANSPORT (PLANTING STOCK)	232.412.4
TRANSPORT (SEED)	232.314
TRANSPORT ORGANIZATION (FOREST)	687
TRAPPING (-FOREST PEST CONTROL	413.1
TRAPPING REGULATIONS	156.6
TREE CLASSES	228.125
TREE DOMINANCE/SUPPRESSION	228.12
TREE HEIGHT MEASUREMENT	522.2
TREE INJURY DIAGNOSIS	416
TREE LONGEVITY	181.71
TREE PLANTING CEREMONIES (- PUBLIC RELATIONS	945.27
TREE PLANTING MACHINES	232.427--087.4
TREE POISONING	243.8
TREE SURGERY	245.18
TREE VOLUME (SINGLE)	524.2
TREES (RELIC)	907.12
TRENCH PLANTING	232.421
TRIALS (FERTILIZER)	237.41*
TRIALS (HYBRID)	232.13
TRIALS (PROGENY)	232.13
TRIALS (PROVENANCE)	232.12
TRIALS (RACE)	232.12
TRIALS (SPECIES)	232.11
TROPHOBIOSIS	151.35
TROPICAL DRY SOILS	114.442.7
TROPICAL HUMID SOILS	114.441.7
TROPISM	161.8
TROPISM (ELECTRIC)	161.9 EP
TUBED NURSERY STOCK	232.329.6
TUNDRA	114.441.1
TUNGUS METEORITE (-FOREST DAMAGE	426.9
TWO,4,5,T	444--414.13 2,4,5,T
TWO,4,D	444--414.13 2,4D
TWO,6,DICHLOROBENZONITRILE	441--414.12 T6DBN
TWO-STORIED FOREST	221.52
TYPE CONVERSION (FOREST)	226
UNDERPLANTING	235.1
UNDERSTORY LAYER	182.42
UNEVEN AGED STAND AGE	552
UNEVEN AGED STAND ATTRIBUTES	228.6
UNGULATA	149.6
UNGULATES -)FOREST DAMAGE CONTROL	451.2--149.6
UNIFORM CUTTING METHOD	221.21
UPLAND TUNDRA	114.441.1
UPPER STEM MEASUREMENTS	521.3
UPPERSTORY LAYER	182.41
UPTAKE (SOLUTE)	161.11
URBAN PARKS	272
URBAN TREES	273
UROGENITAL SYSTEM	134.6
USE (FOREST LAND)	644.5
USE (LAND) -) FOREST LAW	935.5
VADOSE SOILS	114.444



VALUATION (FOREST)	652
VALUATION (- SPECIFIC FOREST PURPOSES)	652.5
VALUE (CAPITAL FOREST)	652.4
VALUE (SOIL EXPECTATION)	652.1
VALUE (STAND)	652.3
VALUE GROWTH (STAND)	653
VARIABILITY (SAMPLING PLOT)	524.637
VARIABLE PLOT (- STAND BASAL AREA)	521.62
VARIABLE PLOT SAMPLING	524.63\$521.62
VARIATION (ANIMAL)	135
VARIATION (ANNUAL RING WIDTH)	561.24
VARIATION (INDUCED)	165.4
VARIATION (MEASUREMENT) (- DBH DATA)	521.25
VARIATION (NATURAL)	165.5
VARIATION (PRECIPITATION)	111.773
VARIATION (SEASONAL)	181.8
VECTORS (INSECT)	181.59\$172.8\$145.7
VEGETAL COVER (TOTAL) -) SITE CLASS	548
VEGETAL COVER (-HYDROLOGY)	116.1
VEGETAL COVER (-RUNOFF)	116.25
VEGETAL COVER (-SOIL CHEMISTRY)	181.343
VEGETAL COVER (-SOIL FORMATION)	114.33
VEGETAL COVER (-WATER EROSION)	116.25
VEGETAL COVER -) ANIMALS	181.42
VEGETAL COVER -) FIRE	181.43
VEGETAL COVER -) FIRE CONTROL	435.1
VEGETAL COVER -) SOIL	181.3
VEGETATION MAPPING METHODS	182.58
VEGETATION TYPES	187

SEE NOTE UNDER PHYTOGEOGRAPHY 187+1

VEGETATIVE INDICATORS (-SOIL FERTILITY)	114.521.7
VEGETATIVE PROPAGATION (NURSERY)	232.328
VEGETATIVE REPRODUCTION	181.51
VERMES	145.1
VERTEBRATA	146
VIABILITY (SEED) -) ENVIRONMENT	181.524
VIABILITY (SEED) -) STORAGE METHODS	232.315.2
VIABILITY TESTS (SEED)	232.318
VIRGIN STAND ATTRIBUTES	228.81
VIRUS (-FOREST PEST CONTROL)	411.18
VIRUS (-INSECTA)	151.42 VIRUS
VIRUS CONTROL (NURSERY)	232.327.2
VIRUS DISEASES (-FOREST DAMAGE)	444
VISCOUS WATER (-FIRE SUPPRESSION)	432.331
VISUAL SIGNALS (GROUND-AIR)	685.3
VITAMINS (PLANT)	161.39 VIT
VITAMINS (-PHYTOCHEMISTRY)	160.29 VITAMINS
VLEI SOILS	114.443.7
VOLCANIC ASH SOIL	114.449.9 VOLCANIC
VOLUME (CROWN)	531
VOLUME (LOG)	526
VOLUME (MERCHANTABLE)	525.5
VOLUME (SINGLE TREE)	524.2
VOLUME (STAND)	524.3
VOLUME (STAND) (- SITE INDEX)	541
VOLUME ESTIMATES -) ALIGNMENT CHARTS	525.1





VOLUME ESTIMATES -) YIELD TABLES	524.37
VOLUME ESTIMATES ACCURACY	524.637
VOLUME INCREMENT	562
VOLUME INCREMENT (STAND)	562.2
VOLUME INCREMENT MEASURING METHODS (STAND)	562.4
VOLUME INCREMENT PERCENT	561.6
VOLUME LOSS CALCULATIONS (MERCHANTABLE)	525.5
VOLUME MEASUREMENT METHODS	524
VOLUME TABLE CONSTRUCTION (STAND)	524.315
VOLUME TABLES (AERIAL)	587.5
VOLUME TABLES (ASSORTMENT)	525.1
VOLUME TABLES (LOG)	526.5
VOLUME TABLES (STACKED)	527
VOLUME TABLES (STAND)	524.315(083.5)
VOLUME TABLES (STAND) (- INCREMENT ESTIMATES	562.46
VOLUMETRIC MEASUREMENT UNITS	516

WAGE COSTS (LOGGING ENTERPRISE)	663.1
WAGE LEVELS	962
WAGE LEVELS (- ENTERPRISE ECONOMICS	644.7
WAGNERS BLENDERSAUMSCHLAG	221.224
WASTE LAND AFFORESTATION	914
WATER (VISCOUS) (-FIRE SUPPRESSION	432.331
WATER ATTACK (-FIRE SUPPRESSION	432.331
WATER BALANCE (-INFILTRATION	116.21
WATER BALANCE (-RUNOFF	116.21
WATER BOMBING (-FIRE SUPPRESSION	432.331--687.3
WATER CONDUCTION (PLANT)	161.12
WATER CONSERVATION	116
WATER CONTENT (STEM)	181.319--161.1
WATER ECONOMY (PLANT)	161.1
WATER EROSION	116.2
WATER REGIME (SOIL)	114.12
WATER REGIME -)COVER	116.1
WATER RELATIONS (PLANT)	181.31
WATER REQUIREMENTS (PLANT)	181.311
WATER RETENTION (SOIL)	114.124
WATER TRANSPORT (FOREST)	687.2
WATERLOGGING (-FOREST DAMAGE	424.2
WEATHER (-FIRE DANGER	431.1
WEATHER (-FOREST DAMAGE	421
WEATHER PROTECTION (NURSERY)	232.327.1
WEATHERING (SOIL)	114.32
WEDGE CUTTING METHOD	221.225
WEED CONTROL (NURSERY)	232.325.2
WEED CONTROL (PLANTATION)	236.1
WEED CONTROL (RANGE)	268.44
WEED KILLERS (NURSERY)	232.325.24
WEED KILLERS (RANGE)	268.44
WEEDING (YOUNG STAND)	241
WEEDING (-ARTIFICIAL REGENERATION	232.211
WEEDING (-NATURAL REGENERATION	231.32
WEEDS (FOREST)	441
WEIGHT MEASUREMENT UNITS	518
WEIGHT SCALING (LOG)	526.1
WEIGHTS (SEED)	232.312.31
WETTING AGENTS (-FIRE SUPPRESSION	432.331
WILDERNESS VALUES	907.1
WILDFIRE (-HYDROLOGY	116.25





WILDFIRE CONTROL	432
WILDING STOCK	232.411.6
WILDLIFE CONSERVATION	907.1
WILDLIFE HABITAT MANAGEMENT	156.2
WILDLIFE MANAGEMENT	156
WILDLIFE MANAGEMENT HISTORY	156.7
WILDLIFE REFUGES	156.2
WILDLIFE REFUGES -) FORESTS/WILDERNESSES	907.13
WILT DAMAGE	416.16
WIND (CONSTANT) (-FOREST DAMAGE	421.2
WIND (-FIRE DANGER	431.1
WIND (-FOREST DAMAGE	421
WIND (-PLANTS	181.23
WIND (-SITE	111.5
WIND PROTECTION (NURSERY)	232.327.11
WIND STABILITY (PLANT)	181.23
WINDBREAKS	266
WINDFLOW	111.5
WINDTHROW	421.1
WINTER DESCICATION (-FOREST DAMAGE	422.15
WINTER DAMAGE (FOREST)	422.1
WITCHES BROOM DAMAGE	416.17
WOOD INJURY	416.5
WOOD WASTE COMPOST	232.322.44
WOODLAND MANAGEMENT PLANNING	624
WOODLOT DEVELOPMENT POLICY	923.4
WORKING CIRCLE DETERMINATION	615
WORKING UNIT SIZE (- ENTERPRISE ECONOMICS	644.4
WORLD FORESTRY	97
WRENCHING	232.326.2

XYLEM INJURY	416.5
--------------	-------

YARDING COSTS	663.23
YEAR-ROUND EMPLOYMENT	963
YIELD (FOREST)	56
YIELD (SUSTAINED) (- MANAGEMENT THEORY	611
YIELD (SUSTAINED -) FOREST LAWS	935.1
YIELD -) FORAGE TYPES	268.5
YIELD -) GROWING STOCK MANAGEMENT	612
YIELD REGULATION	624.1
YIELD TABLE CONSTRUCTION	566
YIELD TABLES	566(083.5)
YIELD TABLES (- INCREMENT ESTIMATES	562.46
YIELD TABLES (- VOLUME ESTIMATES	524.37
YOUNG GROWTH	231.1
YOUNG STAND DISEASES	443.3

ZONAL DISTRIBUTION (SOIL)	114.411
ZONAL SOILS (DRY)	114.442
ZONAL SOILS (HUMID)	114.441
ZOOLOGY (ECOLOGICAL)	15
ZOOLOGY (GENERAL)	13
ZOOLOGY (SYSTEMATIC)	14

